CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Gas pipe line, Texas, Texas Plains Gas Co., making surveys, natural gas pipe line from Panhandle, Tex., to Kansas City, Mo., $18,000,000.

Government department building, Ottawa, Ont., Secretary Department Public Works soon takes bids first unit of 7 buildings, $500,000; total for 7 $15,000,000.

Locks and dams, Louisville, Ky., U. S. Engineer Office plans improving Ohio, Missouri and Mississippi Rivers, $7,292,000.

Railway and terminals, Ontario, Dominion Government, Ottawa, plans constructing and improving, $5,130,000.

Hospital, Detroit, Mich, Twentieth Century Club having plans prepared, $3,000,000.

Schools, San Francisco, Calif., City and San Francisco Co. appropriated, $2,000,000-$3,000,000 per year for 10-year period.

Bridge, Kentucky and Illinois, Paducah Board of Trade plans swing or lift span bridge across Ohio River, $2,100,000.

Cathedral, Seattle, Wash., Episcopal Cathedral having sketches made, $2,000,000.

Mausoleum, Egg Harbor City, N. J., Laurel Park Development Co. having plans prepared, $1,500,000.

Civic Center, Houston, Tex., Election April 11, $1,400,000.

Railroad Terminal, Dallas, Tex., Texas & Pacific R.R. plans terminals, office buildings, etc., $1,250,000.

Roads, Tex., Le Fore-Gray Co., election March 30, $1,200,000.

Apartment hotel, Chicago, Ill. W. Bernhardt & Co., archts., soon takes bids, $1,081,000.

Apartment, Kansas City, Mo., Ward Investment Co. having preliminary sketches made, $1,000,000.

Hotel, Dayton, O., Van Cleve Hotel Co. having plans prepared, $1,000,000.

Hotel, Elizabeth, N. J., Albert Leon & Son soon takes bids, $1,000,000.

Bids Desired

Grading, bridging, paving, Georgia, April 7, by State Highway Department, $3,500,000.

Office, St. Louis, Mo., April 4, by E. M. Tucker, archt., $2,000,000.

Railway, Texas., April 7, by Acme & Pacific R.R. Co., $1,132,000.

Contracts

Bank and office, Chicago, Ill., City State Bank to Lanquist Constr. Co., $5,000,000.

Exchange and office, Chicago, Ill., Chicago Mercantile Exchange, to Paschen Bros., $3,500,000.

Theatre, Chicago, Ill., South Center Amusement and Business Enterprise, to J. Shedden Co. and others, $2,500,000.

Railway, Georgia and South Carolina, Georgia & Florida Railway Co., to Winston & Co., Inc., $2,036,000.

Market, Los Angeles, Calif., California Produce Terminal, Inc., to Dwight P. Robinson & Co., $2,000,000.

Theatre, Portland, Ore. Portland Paramount Co., to L. H. Hoffman, to exceed, $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Apr. 1	Brooklyn, N. Y.	Mar. 24
Apr. 4	Wernersville, Pa.	Mar. 17
Apr. 4	Racine, Wis.	Mar. 24
Apr. 5	Allentown, Pa.	Mar. 10
Apr. 6	Los Banos, Calif.	Mar. 24
Apr. 6	Stanhope, N. J.	Mar. 24
Apr. 6	Boston, Mass.	Mar. 31
Apr. 6	Detroit, Mich.	Mar. 31
Apr. 7	Kingston, N. Y.	Mar. 17
Apr. 7	Newark, N. J. Adv. Mar. 24 and 31.	Mar. 24
Apr. 7	Phila., Pa.	Mar. 31
Apr. 8	Muskegon, Mich.	Mar. 24
Apr. 8	Elkhart, Ind.	Mar. 31
Apr. 11	Magdalina, N. M.	Mar. 17
Apr. 11	Evanston, Ill. Adv. Mar. 31.	Mar. 31
Apr. 12	St. Louis, Mo.	Mar. 24
Apr. 12	Cincinnati, O.	Mar. 31
Apr. 14	New Madrid, Mo.	Mar. 31
Apr. 15	Boston, Mass.	Mar. 24
Apr. 15	Millersburg, O.	Mar. 31
Apr. 15	Southboro, Miss.	Mar. 31
Apr. 16	Rolla, N. D.	Mar. 31
Apr. 19	San Rafael, Calif.	Mar. 31
June 1	Youngstown, O.	Mar. 17

Sewers

Apr. 1	Kenmore, O.	Feb. 3
Apr. 1	Boston, Mass.	Mar. 24
Apr. 1	South Orange, N. J.	Mar. 24
Apr. 1	Parma (br. Cleveland), O.	Mar. 31
Apr. 4	Buffalo, N. Y.	Mar. 17
Apr. 4	St. Paul, Minn.	Mar. 31
Apr. 5	Teaneck, N. J.	Mar. 24
Apr. 5	Rocky River (br. Cleveland), O.	Mar. 31
Apr. 5	Charles City, Ia.	Mar. 31
Apr. 5	Pekin, Ill.	Mar. 31
Apr. 5	Royal Oak (br. Detroit), Mich.	Mar. 31
Apr. 6	Phila., Pa.	Mar. 17
Apr. 6	Los Banos, Calif.	Mar. 24
Apr. 6	Dayton, O.	Mar. 31
Apr. 6	Cleveland, O.	Mar. 31
Apr. 6	Brooklyn, N. Y.	Mar. 31
Apr. 6	Boston, Mass.	Mar. 31
Apr. 6	Baltimore, Md.	Mar. 31
Apr. 7	Akron, O.	Mar. 31
Apr. 8	Pratt, Kan.	Mar. 31
Apr. 12	Waterbury, Conn. Adv. Mar. 17 to 31.	Mar. 17
Apr. 12	Wallingford, Conn. Adv. Mar. 24 and 31.	Mar. 24
Apr. 12	Cincinnati, O.	Mar. 31
Apr. 14	Sacramento, Calif.	Mar. 24
Apr. 14	Mobile, Ala.	Mar. 17
Apr. 14	New Madrid, Mo.	Mar. 31
Apr. 26	Washington, D. C. Adv. Mar. 31.	Mar. 31
Apr. 29	Louisville, Ky. Adv. Mar. 31.	Mar. 31
May 2	Birmingham, Ala.	Mar. 31
May 2	Springfield, Ill. Adv. Mar. 31.	Mar. 31

Waste Disposal

Apr. 12	Paterson, N. J. Adv. Mar. 24 and 31.	Mar. 24

Bridges

Apr. 4	Pennsylvania	Feb. 24
Apr. 4	Bellefontaine (mail Chesterfield), Mo.	Mar. 31
Apr. 4	St. Maglovie de Bellechase, Que.	Mar. 31
Apr. 5	Gulfport, Miss.	Mar. 24
Apr. 5	Waverly, Ia.	Mar. 31
Apr. 6	Richardson, Miss.	Mar. 24
Apr. 6	Pennsylvania	Mar. 24
Apr. 6	Pennsylvania	Mar. 31
Apr. 6	Sparta, Wis.	Mar. 31
Apr. 6	Wetumpka, Ala.	Mar. 31
Apr. 7	Clay Center, Kan.	Mar. 31
Apr. 8	Van Zandt, Wash.	Mar. 31
Apr. 8	Georgia	Mar. 31
Apr. 8	Goshen, Ind.	Mar. 31
Apr. 11	New York and New Jersey	Mar. 10
Apr. 12	Decatur, Ill.	Mar. 17
Apr. 12	Rye, N. Y. Adv. Mar. 31.	Mar. 31
Apr. 12	Massachusets	Mar. 31
Apr. 13	Illinois	Mar. 31
Apr. 13	New York, N. Y.	Mar. 31
Apr. 15	Knox, Ind.	Mar. 24
Apr. 25	Pueblo, Colo.	Mar. 24

Railways

Apr. 7	Texas	Mar. 31

Excavation, Drainage, Irrigation. Levees, River and Harbor

Apr. 1	New York Adv. Mar. 10 to 31.	Mar. 10
Apr. 4	Chandler, Okla.	Mar. 31
Apr. 4	Long Island City, N. Y.	Mar. 31
Apr. 5	Harrop, Neb.	Mar. 24
Apr. 5	Virginia Beach, Va. Adv. Mar. 24 and 31.	Mar. 24
Apr. 5	Osceola, Ia.	Mar. 31
Apr. 5	Dakota City, Ia.	Mar. 31
Apr. 6	Bemidji, Minn.	Mar. 24
Apr. 6	Brooklyn, N. Y.	Mar. 31
Apr. 7	Washington, Ind.	Mar. 31
Apr. 11	Donna, Tex.	Mar. 24
Apr. 11	Goshen, Ind.	Mar. 31

Streets and Roads

Apr. 1	Cincinnati, O.	Mar. 24
Apr. 1	Dormont (mail Pittsburgh), Pa.	Mar. 31
Apr. 2	Janesville, Wis.	Mar. 31
Apr. 4	Evansville, Ind.	Mar. 24
Apr. 4	Iowa City, Ia.	Mar. 24
Apr. 4	Minot, N. D.	Mar. 10
Apr. 4	South Bend, Ind.	Mar. 17
Apr. 4	New Jersey	Mar. 17
Apr. 4	Wallingford, Ia.	Mar. 24
Apr. 4	Blue Earth, Minn.	Mar. 31
Apr. 4	English, Ind.	Mar. 31
Apr. 4	Boston, Mass.	Mar. 31
Apr. 4	Brookline (br. Boston), Mass.	Mar. 31
Apr. 4	Newkirk, Okla.	Mar. 31
Apr. 4	Parma (br. Cleveland), O.	Mar. 31
Apr. 4	New York, N. Y.	Mar. 31
Apr. 4	Long Island City, N. Y.	Mar. 31
Apr. 4	Ambridge, Pa.	Mar. 31
Apr. 4	Swastika, Ont.	Mar. 31
Apr. 5	Indiana	Mar. 24
Apr. 5	Princeton, Ind.	Mar. 24
Apr. 5	Buffalo, Minn.	Mar. 24
Apr. 5	Decorah, Ia.	Mar. 24
Apr. 5	Gulfport, Miss.	Mar. 24
Apr. 5	Wenatchee, Wash.	Mar. 24
Apr. 5	Washington, Ind.	Mar. 24
Apr. 5	Plymouth, Ind.	Mar. 24
Apr. 5	Tipton, Ia.	Mar. 24
Apr. 5	Minden, La.	Mar. 31
Apr. 5	Kenosha, Wis.	Mar. 31
Apr. 5	Altoona, Pa.	Mar. 31
Apr. 5	Wyoming	Mar. 31
Apr. 5	Winamac, Ind.	Mar. 31
Apr. 5	Toms River, N. J. Adv. Mar. 31.	Mar. 31
Apr. 5	Rutherford, N. J. Adv. Mar. 31.	Mar. 31
Apr. 5	Boston, Mass.	Mar. 31
Apr. 5	Massachusetts	Mar. 31
Apr. 5	Columbia, Miss.	Mar. 31
Apr. 5	Dakota City, Ia.	Mar. 31
Apr. 5	Oxford, Miss.	Mar. 31
Apr. 5	Gulfport, Miss.	Mar. 31
Apr. 5	Kenosha, Wis.	Mar. 31
Apr. 5	Towson, Md.	Mar. 31
Apr. 5	Marshall, Mich.	Mar. 31
Apr. 5	Paw Paw, Mich.	Mar. 31
Apr. 5	Phila., Pa.	Mar. 31
Apr. 5	Toronto, Ont.	Mar. 31

See proposal advertising on page 124

TRADE "LEADITE" MARK
Registered U. S. Pat. Office

Pipe Joint Knowledge

LEADITE is recognized to be the best material for making joints in cast iron bell and spigot water mains by thousands of water works men thruout the world.

Water works men who keep a check on their systems and make water waste surveys know that their pipe lines laid with LEADITE are tight.

Their experience with LEADITE has proven to them that LEADITE joints improve with age, and that the joints do not corrode or rust.

They know that LEADITE has been successfully tested and used for over 30 years.

They know LEADITE will flow around a 60-in. pipe just as easily as it does around a 4-in. pipe; size does not make any difference. They know LEADITE fills every crevice of the joint.

They know LEADITE eliminates the expense and drudgery of caulking.

They know the simplicity, economy and efficiency with which LEADITE can be used.

Give LEADITE a fair trial and convince yourself of its merit and many advantages.

Join the LEADITE users.

The up-to-date water works man specifies and uses LEADITE.

16-in. c. i. B&S water main laid with LEADITE joints, tested to 195 lbs. water pressure.

LEADITE saves at least *75%*

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE
and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
Apr. 6	Gainesville, Fla.	Mar. 17
Apr. 6	Morgantown, W. Va.	Mar. 17
Apr. 6	Freehold, N. J.	Mar. 24
Apr. 6	Scarsdale, N. Y. Adv. Mar. 17 to 31.	Mar. 24
Apr. 6	Uniontown, Pa.	Mar. 31
Apr. 6	Port Washington, Wis.	Mar. 31
Apr. 6	St. Louis, Mo.	Mar. 31
Apr. 6	New York, N. Y.	Mar. 31
Apr. 6	St. George, N. Y.	Mar. 31
Apr. 6	Fairfield, Ia.	Mar. 31
Apr. 6	Baltimore, Md.	Mar. 31
Apr. 7	Georgia	Mar. 31
Apr. 7	Center Line, Mich.	Mar. 31
Apr. 7	Fond du Lac, Wis.	Mar. 31
Apr. 7	Dayton, O.	Mar. 31
Apr. 8	Georgia	Mar. 31
Apr. 8	Larned, Kan.	Mar. 17
Apr. 8	Tennessee	Mar. 10
Apr. 8	Muskegon, Mich.	Mar. 24
Apr. 8	New York Adv. Mar. 24 and 31.	Mar. 24
Apr. 8	Jesup, Ga.	Mar. 31
Apr. 8	Georgia	Mar. 31
Apr. 8	London, Ont.	Mar. 31
Apr. 11	New Jersey Adv. Mar. 24 and 31.	Mar. 24
Apr. 11	California	Mar. 31
Apr. 11	Southmount (mail Johnstown), Pa.	Mar. 31
Apr. 11	Evansville, Ind.	Mar. 31
Apr. 11	Rhode Island Adv. Mar. 31.	Mar. 31
Apr. 11	Stockton, Calif.	Mar. 31
Apr. 11	Los Angeles, Calif.	Mar. 31
Apr. 11	Michigan City, Ind.	Mar. 31
Apr. 12	Oklahoma	Mar. 24
Apr. 12	Lyndon, Kan.	Mar. 24
Apr. 12	Port Gibson, Miss.	Mar. 24
Apr. 12	Washington	Mar. 31
Apr. 12	St. Louis, Mo.	Mar. 31
Apr. 12	Modesto, Calif.	Mar. 31
Apr. 12	New Castle, Del.	Mar. 31
Apr. 12	Massachusetts	Mar. 31
Apr. 12	Everett, Wash.	Mar. 31
Apr. 12	Bridgeton, N. J.	Mar. 31
Apr. 12	Columbus, O.	Mar. 31
Apr. 13	Illinois	Mar. 31
Apr. 13	Dumont, N. J. Adv. Mar. 24 and 31.	Mar. 31
Apr. 14	Kentucky	Mar. 10
Apr. 14	Marion, Kan.	Mar. 24
Apr. 15	Lawrence, Kan.	Mar. 10
Apr. 15	Canton, O.	Feb. 3
Apr. 15	Anderson, Ind.	Mar. 3
Apr. 15	Phila., Pa.	Mar. 10
Apr. 17	Anderson, Ind.	Mar. 3
Apr. 18	New Jersey Adv. Mar. 31.	Mar. 31
Apr. 19	St. Louis, Mo.	Mar 31
Apr. 20	Birmingham, Ala.	Mar. 3
Apr. 21	Akron, O.	Mar. 31
Apr. 25	Birmingham, Ala.	Mar. 31
May 25	Duluth, Minn.	Mar. 31
May 1	Duluth, Minn.	Feb. 24

Buildings—Commercial

Apr. 1	Wilmington, Del.	Jan. 27
Apr. 1	Canton, O.	Jan. 20
Apr. 1	New Castle, Pa.	Feb. 17
Apr. 1	Berea, O.	Mar. 31
Apr. 4	Anderson, Ind.	Mar. 31
Apr. 4	Roxborough (mail Phila.), Pa.	Mar. 31
Apr. 4	Phila., Pa.	Mar. 31
Apr. 4	Haverhill, Mass.	Mar. 31
Apr. 7	Newburyport, Mass.	Mar. 24
Apr. 11	Nashua, N. H.	Mar. 24
Apr. 16	Columbus, O.	Mar. 31
Apr. 20	Louisville, Ky.	Feb. 17
Apr. 20	Orangeburg, N. Y. Adv. Mar. 31.	Mar. 31
Apr. 23	Columbus, O.	Mar. 31
Apr. 26	Ashland, Ky.	Mar. 24
May 1	La Junta, Colo.	Feb. 3
May 15	Bellingham, Wash.	Mar. 24

Bids close		See Eng. News-Record
Apr. 7	Pottstown, Pa.	Mar. 31
Apr. 7	Midland, Mich.	Mar. 31
Apr. 12	Pittsfield, N. Y.	Mar. 31

Buildings—Educational, Religious

Apr. 1	Pendleton, Ind.	Mar. 3
Apr. 2	Athens, O.	Mar. 17
Apr. 4	Cleveland, O.	Mar. 17
Apr. 4	Hartford, Conn.	Mar. 24
Apr. 5	Plainfield, N. J.	Mar. 24
Apr. 5	Phila., Pa.	Mar. 31
Apr. 5	New Castle, Pa.	Mar. 31
Apr. 5	Greensburg, Pa.	Mar. 31
Apr. 5	Hartford, Conn.	Mar. 31
Apr. 6	Phila., Pa.	Mar. 31
Apr. 6	Salem, Mass.	Mar. 31
Apr. 7	Grand Blanc, Mich.	Mar. 31
Apr. 8	Minneapolis, Minn.	Mar. 31
Apr. 9	Parma (br. Cleveland), O.	Mar. 31
Apr. 11	Syracuse, N. Y.	Mar. 31
Apr. 11	Cincinnati, O.	Mar. 31
Apr. 14	Ashtabula, O.	Mar. 31
Apr. 22	Miamisburg, O.	Mar. 31
May 1	Monroe, Mich.	Jan. 13

Federal Government Work

Apr. 1	Pipe Line—Wash., D. C. Adv. Mar. 10 to 31.	Mar. 10
Apr. 4	Dormitory—Wash., D. C.	Mar. 24
Apr. 5	Kitchens, etc.—Camp Mabry (mail Bracken), Tex.	Mar. 24
Apr. 5	Buildings, etc.—Alderson, W. Va.	Mar. 3
Apr. 5	Trestles, Wickets, etc.—Louisville, Ky. Adv. Mar. 10 to 31.	Mar. 10
Apr. 5	Scout Cruisers—Wash., D. C.	Mar. 10
Apr. 6	Heating Plant—Phila., Pa.	Mar. 17
Apr. 8	Altering Quarters—Langley Field (Ind. br. Hampton), Va.	Mar. 24
Apr. 11	Post Office—Shelbyville, Ky.	Mar. 17
Apr. 11	Hospital—Ft. Sill (Ind. br. Lawton), Okla.	Mar. 24
Apr. 11	Post Office—Ft. Mason (mail San Francisco), Calif.	Mar. 31
Apr. 12	Canal—Oregon	Mar. 10
Apr. 12	Fences and Gates—Livermore, Calif.	Mar. 17
Apr. 12	Refrigerating Equipment—Oteen, N. C.	Mar. 17
Apr. 12	Refrigerating Equipment—Maywood, Ill.	Mar. 17
Apr. 12	Roads—Arizona	Mar. 31
Apr. 13	Marine Railway—San Diego, Calif.	Mar. 17
Apr. 14	Mechanical Equipment, etc.—Chicago, Ill. Adv. Mar. 24 and 31.	Mar. 24
Apr. 14	Dredging — Richmond, Calif.	Mar. 24
Apr. 14	Sand, etc.—Chicago, Ill. Adv. Mar. 31.	Mar. 31
Apr. 15	Water Main—Fort Bragg, N. C. Adv. Mar. 24 and 31.	Mar. 31
Apr. 15	Dredging—Hartford, Conn. Adv. Mar. 17 to 31.	Mar. 17
Apr. 18	Gangway—Port Townsend, Wash.	Mar. 24
Apr. 19	Post Office—McKees Rock, Pa. Adv. Mar. 24 and 31.	Mar. 24
Apr. 20	Post Office—East Las Vegas, N. M.	Mar. 31
Apr. 23	Locks—Pittsburgh, Pa. Adv. Mar. 31.	Mar. 31
Apr. 26	Post Office—Lancaster, S. C. Adv. Mar. 24 and 31.	Mar. 24

Bids close		See Eng. News-Record
Apr. 26	Receiving Building—Oteen, N. C. Adv. Mar. 31.	Mar. 24
Apr. 27	Boats—Pittsburgh, Pa. Adv. Mar. 31.	Mar. 31
Apr. 29	Post Office—Chamberlain, S. D. Adv. Mar. 24 and 31.	Mar. 24
May 9	Post Office, etc.—Coeur D'Alene, Idaho	Mar. 31
June 1	Quarters—Canacao, P. I.	Mar. 3

Unclassified

Apr. 1	Special Work—Brooklyn, N. Y.	Mar. 24
Apr. 5	Track Work—Boston, Mass.	Mar. 17
Apr. 5	Borings—New York Adv. Mar. 24 and 31.	Mar. 24
Apr. 5	Culverts—Tipton, Ia.	Mar. 24
Apr. 6	Street Signs—Phila., Pa.	Mar. 31
Apr. 7	Heating and Ventilating—Indianapolis, Ind.	Mar. 17
Apr. 7	Land Development—Myrtle Beach, S. C.	Mar. 24
Apr. 7	Rip Rap—Plymouth, Mass.	Mar. 31
Apr. 8	Stadium and Field—Jackson, Mich.	Mar. 31
Apr. 8	Glass—Phila., Pa.	Mar. 31
Apr. 8	Duct Line—Brooklyn, N. Y.	Mar. 31
Apr. 9	Electrical Refrigeration Plant—Richmond, Ind.	Mar. 31
Apr. 11	Fire Alarm System—Long Island City, N. Y.	Mar. 31
Apr. 12	Heating and Ventilating System—Columbia, Mo.	Mar. 24
Apr. 13	Refrigeration Equipment—Kings Park, N. Y. Adv. Mar. 17 to 31.	Mar. 17
May 6	Subway—New York	Mar. 31

Materials

Apr. 1	Granite Edgestones—Boston, Mass.	Mar. 24
Apr. 1	Pipe and Fiber Conduit—Cleveland, O.	Mar. 31
Apr. 1	Tar—Cincinnati, O.	Mar. 31
Apr. 4	Boston, Mass.	Mar. 31
Apr. 4	Emulsified Asphaltic Concrete—Greencastle, Ind.	Mar. 24
Apr. 4	Culvert Pipe—Primghar, Ia.	Mar. 24
Apr. 4	Gasoline, Coal Oil, etc.—Scottsburg, Ind.	Mar. 31
Apr. 4	Culvert Pipe—Iowa City, Ia.	Mar. 24
Apr. 4	Steel Sheets, etc.—St. Louis, Mo.	Mar. 31
Apr. 4	Sand—Long Island City, N. Y.	Mar. 31
Apr. 4	Concrete Pipe—Spirit Lake, Ia.	Mar. 31
Apr. 4	Slag Ballast, Steel, etc.—Phila., Pa.	Mar. 31
Apr. 5	Road Oil and Tar—Boston, Mass.	Mar. 31
Apr. 5	Asphalt, Cement, etc.—Springfield, Mass.	Mar. 31
Apr. 5	Gravel—Oxford, Miss.	Mar. 31
Apr. 6	Cement—Bison, S. D.	Mar. 31
Apr. 6	Road Oil and Tar—Boston, Mass.	Mar. 31
Apr. 7	Concrete and Metal Culverts—Cavalier, N. D.	Mar. 24
Apr. 8	Glass—Phila., Pa.	Mar. 31
Apr. 11	Pipe—Montreal, Que.	Mar. 31
Apr. 11	Crushed Rock—Houston, Tex.	Mar. 31
Apr. 11	Silica Dust — Lansing, Mich. Adv. Mar. 31.	Mar. 31
Apr. 12	Posts—Minnesota	Mar. 31
Apr. 12	Stone, Gravel, Slag, Tar, etc.—Wilmington, Del.	Mar. 31
Apr. 18	Shell—Houston, Tex.	Mar. 31

News of the Week

Waterworks

Proposed Work

N. H., Marlboro—Plans pipe line. $100,000. Engineer not selected.

Mass., Andover—Plans extending mains in various streets. $16,200 appropriated. Private plans.

Mass., Bridgewater — Plans extending mains in various streets. $25,000 appropriated. Private plans.

Mass., Quincy (br. Boston)—Plans extending mains in various streets. $31,470 appropriated Private plans.

Mass., Wellesley—Plans extending mains in various streets. $60,000 appropriated. Private plans.

N. J., Newark—North Jersey Dist. Water Supply, 24 Commerce St., rejected bids constructing Midvale and Furnace Rd. dams for Wanaque Reservoir. Noted Mar. 24.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

D. C., Wash.—District Comrs., District Bldg., plan terra cotta mains in various streets. $250,000.

W. Va., Fairmont—Plans election $150,000 bonds, waterworks extensions. S. S. Miller, Fairmont, engr. Noted Mar. 3.

O., Cincinnati — Comrs. Hamilton Co. plan 8,544 ft. 6 in. c.i. mains, etc., in Water Supply Line 55, Dist. 2. $18,710. L. C. Boyatt, Court House, engr.

O., Youngstown — Mahoning Co. soon takes bids extending mains from Market St. to Ewing Rd. in Boardman Twp., also additional lines in Ridgewood, Forest Glen and Newport allotments, etc. $50,000. L. Fawcett, Youngstown, engr.

Mich., Montague—Voted $30,000 bonds, for new well.

Minn., Mankato—F. W. Bates, city clk., making plans 1.5 mi. mains in Bunker Hill Dist. $15,418. P. Comstock, city engr.

Constr. News page 198

When time is money . . .

use High-Early-Strength concrete made with standard (not special) Universal Cement

Intersection of Church and New Streets, Champaign, Ill., placed and opened to traffic in 3 *days* thru use of High-Early-Strength *Universal* Concrete made by using thoroly tested methods and standard (not special) *Universal* cement. Fred Lohman, city engineer; Frank A. Somers, Urbana, contractor. Standard (not special) *Universal* cement furnished by Somers-Barr Co., Inc., Urbana. For full details use the coupon.

Another Street Intersection Placed and Ready for Traffic in 3 *Days*

To place concrete for a street intersection with minimum delay to traffic and at the same time give the city a permanently *better* pavement, the builder used High-Early-Strength Universal Concrete.

Not only was the intersection opened to traffic in 3 *days*, but this concrete, having a greater ultimate strength, is also permanently *better* and *stronger* concrete.

High-Early-Strength Universal Concrete is made by using fully tested methods and standard *Universal* cement, which being standard—not special—sells at the regular price. It is applicable to any job calling for early use or for better concrete. The accompanying coupon will bring full details promptly.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 *days* with standard *Universal* [not special] cement, the same quality *Universal* regularly used.

Name .....

Address .....

ENR 3-31-27

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

Kan., Oneida—Election Apr. 4, $20,000 bonds, waterworks improvements. E. T. Archer & Co., 609 New England Bldg., Kansas City Mo., engrs. Noted Nov. 4.

Kan., Otis—Election Apr. 4, $50,000 bonds, new waterworks and distribution system.

S. D., Mitchell—Voted $350,000 bonds, constructing reservoir 1 mi. from here. F. McGovern, city aud.

Mo., St. Louis—Water Dept., L. Day, comr., City Hall, making preliminary plans rein.-con. coagulant basin, auxiliary piping, etc. at Howards Bend Waterworks Station, $450,000; mains in various streets, $150,000; and various sized meters, $30,000. City furnishes pipe.

Tex., Angleton—Voted $38,000 bonds, waterworks improvements. Address Mayor.

Tex., Big Lake—Voted $40,000 bonds, waterworks. Noted Mar. 17.

Tex., New Boston—Election Apr. 12, $55,000 bonds, waterworks. J. H. Dalby, mayor.

Tex., Teague — Voted $40,000 bonds, waterworks improvements. J. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, consult. engr. Noted Feb. 17.

Okla., Poteau—Election Apr. 5, $38,500 bonds, 17,000 ft. 10 in. c.i. main from pump station to reservoir. J. E. Davis, Poteau, engr.

Calif., Glendale—J. F. Johannsen, city clk., rejected bids constructing reservoir. Noted Feb. 17.

Calif., Long Beach — Voted $2,378,000 bonds, extending and improving waterworks. Noted Jan. 27.

Bids Desired

Mass., Boston—Apr. 6, by Supply Dept., 50 tons 4 in. bell and spigot pipe in 6 ft. lengths, for Water Serv. H. S. Frost, supt.

Mass., Southboro—Apr. 15, by Metropoliton Dist. Water Supply Comn., 24 School St., 9,000 lin.ft. 30 in. pipe and appurtenances. R. N. Molt, secy.

Pa., Phila.—Apr. 7, by Dept. Pub. Wks., Bureau of Water, 4 motor-driven pumps for Belmont High Service Station, Contr. 843; steel sash and doors, Torresdale and other pumping stations, Contr. 861; engine room floor Shawmont Pumping Sta., Contr. 869; switchboard for Chestnut Hill Pumping Sta., Contr. 873; demolishing building and chimney, Georges Hill Pumping Sta., Contr. 874; and boiler baffles for six 500 hp. Edgemoor boilers and appurtenant work, Contr. 875. G. H. Biles, dir.

Md., Baltimore—Apr. 6, by Bd. Awards, brass service pipe fittings to Bureau Water Supply. G. F. Wieghardt, water engr.

O., Cincinnati—Apr. 12, by Comrs. Hamilton Co., 14,832 ft. 6- to 8-in. c.i. mains in Water Supply line 50, Dist. 7, $31,172, and 68,687 ft. 6- to 10-in. c.i. mains in Water Supply Line 49, Dists. 4 and 6, $225,952. L. C. Boyatt, Court House, engr. Noted Feb. 10.

O., Millersburg—Apr. 15, by City Council, increasing capacity water tank from 150,000 to 350,000 gal., on Massillon Rd., constructing new 50,000 gal. tank, and laying 4 in. c.i. mains in Massillon Rd., Hebron and Critchfield Sts., etc. $25,000. D. M. Schoer, Dover, engr.

Ind., Elkhart—Apr. 8, by E. T. Kellogg, city clk., 4 wells and well houses. $45,000. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

Mich., Detroit—Apr. 6, by Bd. Water Comrs., 176 East Jefferson St., approximately 2,300 ft. 12 in. c.i. main from Detroit side of Amer. Channel of Detroit River near Belle Isle bridge to point on Belle Isle, for Dept. Water Supply. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr. Noted Mar. 17.

Ill., Evanston — Apr. 11, by Bd. Local Impvts., waterworks improvements in Oakton St. A. W. Handford, comr. and city engr.; adv. E. N.-R. Mar. 31.

N. D., Rolla—Apr. 16, by City Auditor, waterworks, incl. 2 wells, 30,000 gal. tank on steel tower, etc., $29,000; and sewerage system, 17,000. T. R. Atkinson, Bismark, engr.

Mo., New Madrid—Apr. 14, by R. L. Jones, city clk., 18,350 ft. 4 in. c.i. and 1,000 ft. 2 in. galvanized pipe, twenty 4 in. gate valves, twenty 4 in. double nozzle fire hydrants, 8,425 lb. special castings, 23 wet connections, corporation cocks, etc. A. C. Moore, Joplin Natl. Bank Bldg., Joplin, engr. Noted Mar. 24.

Calif., Healdsburg—D. A. Bane, city clk., taking bids motor driven centrifugal pump unit, 7 in. suction and discharge, 1,200 g.p.m. normal discharge 200 ft. head, motor to be 100 hp., 2,300 volt, 3 phase, 1,800 sym. r.p.m. 60 cycle, direct connected, squirrel cage type, G. E. or equal with 125-200 hp. starter.

Calif., Oakland—Taking bids one deep well turbine pump with 600-800 g.p.m. against head of 100-150 ft., for water works plant. G. D. Macomber, city engr.

Calif., San Rafael—Apr. 19, by Directors Marin Municipal Water Dist., 1½ m.g. steel tank at Tiburon. Noted Jan. 13.

Contracts Awarded

Mass., Boston—Supply Dept., to Gamon Meter Co., 282 South Newark St., Newark, N. H., three thousand ⅝ in. meters at $7.20 each, one hundred ¾ in. $10.50, one hundred 1 in. $14.90, seventy-five 1½ in. $30, twenty-five 2 in. $45, thirty-four 3 in. $98, and twenty-four 4 in. $180, total $35,445. Noted Feb. 3.

Conn., Bristol — Water Bd., to Clark Barone Co., Oak and Wight Sts., New Haven, 1,000 ft. 2 in. galvanized pipe at $0.35 per lin.ft., 10,000 ft. 6 in. c.i. pipe $0.38 and 7,000 ft. 8 in. $0.41 rock excav. $8. Engrs. est. $15,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue M, to Palladino Contg. Co., 1479 Park Ave., New York City, $11,672; in Flatbush Ave., to Wataga Contg. Co., 308 Lenox Ave., New York City, $467; in Avenues Q and T, to Riverdale Waterworks, 355 East 113th St., New York City, $11,614. Grand total $23,753. Noted Mar. 24.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Andrews Ave., to Riverdale Waterworks, 1 Riverdale Ave., $7,974; 33rd Ave. and 40th St., to S. Gallucci & Sons, Railroad Ave., Corona, $5,720 and $7,436 respectively; 46th St., to Gregory Contg. Co., 351 East 124th St., $5,998. Grand total $27,128. Noted Mar. 10.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bogart Ave., to Sareno Contg. Co., 1959 Balden Ave., $5,315, Burke Ave., to Palladino Contg. Co., 1479 Park Ave., $3,442; and in Close St., to Knight & De Micco, Inc., 448 East Tremont Ave., $4,330. Grand total $13,087. Noted Mar. 24.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., pumping equipment in Clove Pumping Station, here, to Turbine Equipment Co., 30 Church St., New York City, $73,850; also constructing pumping station, to G. A. Griffin, 103 Park Ave., New York City, $45,900. Noted Mar. 17.

N. J., Florham Park — Boro Council, Boro Hall, 200 tons c.i. water pipe, pumping station, etc., to W. Fritz, 60 Main St., West Orange. Noted Feb. 17.

Ky., Franklin—P. E. Lewis, mayor and City Council, waterworks improvements, filter equipment, to F. B. Leopold Co., 422 1st Ave., Pittsburgh, Pa., $10,200; general contract, filter basin, piping, and brick superstructure, to Sherman Machine & Iron Wks., 18-32 East Main St., Oklahoma City, $33,567. Noted Mar. 10.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 6,000 ft. 6 and 8 in. c.i. mains in Stockbridge and Eldamere Drs., Impvt. 579, to Sewer Constr. Co., 3407 East 114th St., $14,239; 2,000 ft. 2 and 6 in. in Glen Alta Ave., Impvt. 578, to E. P. Langenhan Co., Marshall Bldg., $6,735, and 4,000 ft. 6 in. Stone Rd., Impvt. 456, to Gantose Constr. Co., Brookpark Rd., $22,013. Grand total $42,987 Noted Feb. 10.

Tex., Brownsville—James-Dickinson Co., c/o Travelers Hotel, water distributing system in Los Ebanos sub-division near here, to Agar & Gentry, San Benito, $16,000. Noted Jan. 6 under "Unclassified."

Tex., Brownsville—For 4- to 8-in. mains and laterals, to Natl. C. I. Pipe Co., Santa Fe Bldg., Dallas, $30,000.

Calif., Oakland—East Bay Pub. Utility Dist., constructing housing for San Pablo Screening Chamber, Lafayette Screening Chamber and pumping station, and aeration work at Lafayette Screen Chamber, to A. F. Anderson, Patten St. and Chabot Rd., $35,036.

Calif., Santa Barbara—For 12 in. steel pipe line, etc. in connection with Sheffield Reservoir mains, to H. E. Adams, 962 South Vermont Ave., Los Angeles, $30,833. Noted Aug. 12.

Sewers

Proposed Work

N. H., Claremont—Town, W. L. Fitch, in charge, plans large sewerage system. $500,000.

Mass., Quincy (Boston P. O.) — Plans additional sewers in various streets. $35,000 appropriated. Private plans.

Mass., Wellesley—Plans extending sewers in various streets. $60,000 appropriated. Private plans.

D. C., Wash.—District Comrs., District Bldg., plan terra cotta sewers in various streets. $590,000.

D. C., Wash.—District Comrs., District Bldg., plan terra cotta sewers in various suburban streets. $648,800.

W. Va., Fairmont—Plans election $150,000 bonds, new sewers lines. S. S. Miller, Fairmont, engr. Noted Mar. 3, under "Waterworks."

Fla., Jacksonville—Sold bonds, sewers in various streets. $410,000. C. E. Sheddan, City Hall, engr.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids 18,960 ft. 8- to 24-in vitr. clay, and 7,690 ft. 30- to 75-in. brick or segmental block trunk and lateral sewers, etc., Arlington et al. (Weston Rd. Dist.), $273,500; also 7,530 ft. 8- to 15-in. vitr. clay sanitary sewer Summit Lake Blvd. et al, $75,400. J. E. Root, Municipal Bldg., engr.

O., Canfield—Mahoning Co. (Youngstown, soon takes bids, sanitary sewerage system, $100,000; also small sewage disposal plant $60,000, here. L. Fawcett, Youngstown, engr.

O., Youngstown — Mahoning Co. soon takes bids sanitary sewers in Coitsville and Boardman Twps. $50,000. L. Fawcett, Youngstown, engr.

Mich., Ann Arbor—Plans approximately 600 ft. 30 in. rein.-con. and 1,630 ft. 15- to 24-in. vitr. sewer in Henry St. $25,000. G. H. Sandenburgh, city engr.

Mich., Muskegon—Muskegon Co. plans 17 mi. 8- to 30-in. vitr. or concrete drain or sewer in Ruddiman Creek Valley. $300,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs. Noted Mar. 17.

Neb., Wolbach—Plans sewers in various streets, also disposal plant. $25,000.

Mont., Havre—Election Apr. 4, $140,000 bonds, sewage treating and disposal plant. G. C. Yeon, city clk.

Mo., Campbell—Soon lets contract sewage disposal plant.

Tex., Amarillo — Made plans and soon takes bids 12,000 ft. 6- to 12-in. sewers, pumping station, centrifugal pump and motor in Wolfin addition. $26,000. H. B. Jones, city engr.

Tex., Beaumont—See "Unclassified."

Tex., Dalby—Election soon $35,000 bonds, sewerage system. J. H. Dalby, mayor.

Tex., Dalhart — Takes new bids after Apr. 4, sewers in various streets, and disposal plant. $40,000. Devlin Eng. Co., Amarillo, engrs. Noted Feb. 24.

Tex., Houston—Made plans storm and sanitary sewers in Navigation Blvd. $25,000.

Tex., Houston—Election Apr. 11, $250,000 bonds, sanitary sewers in various streets. J. C. McVey, city engr.

Tex., Houston—Election Apr. 11, $200,000 bonds, sewage disposal plant addition. J. C. McVey, city engr.

Tex., Perryton—Takes bids after Apr. 5, complete sewerage system and disposal plant. $50,000. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs. Noted Mar. 24.

Okla., Shidler—Election Apr. 5, $40,000 bonds, 14,700 ft. 8- to 12-in. sewers, etc., in all streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 2.

Wash., Marysville—Soon takes bids complete sewerage system. $50,000-$60,000. J. F. Birney, Everett, engr.

Calif., Hanford — D. C. Williams, city clk., soon takes bids 1,000 ft. 8 in. vitr. sewer pipe with wyes.

Calif., Huntington Park—City Council takes bids about Apr. 17, 8 in. vitr. sewer with 6 in. house connections in Saturn and Florence Aves., etc. To exceed $25,000. H. B. McCurdy, city engr.

Calif., Oakland—Making estimates constructing storm sewer in area bounded by 57th and Seminary Aves., East 14th St. and Foothill Blvd. To exceed $25,000. W. W. Harmon, city engr.

Calif., San Rafael—Plans election $107,622 bonds, new 42 in. wood stave, $159,864 bonds, concrete, or $266,620 bonds, c.i. sewerage system, replacing old sewerage system. H. K. Brainerd, city mgr.

Hawaii, Wahiwa—Making plans disposal plant. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Bids Desired

Mass., Boston—Apr. 6, by Dept. Pub. Wks., sewerage works in Maple St., Roxbury; Sunnyside St., Hyde Park; and Violante St., Dorchester. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn—Apr. 6, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Rockaway Parkway, East 26th and Newport Sts., etc.

Md., Baltimore—Apr. 6, by Bd. Awards, storm drains and sanitary sewers in miscellaneous sewer districts in Storm Water Contr. 104. M. J. Ruark, 311 Courtland St., sewerage engr.

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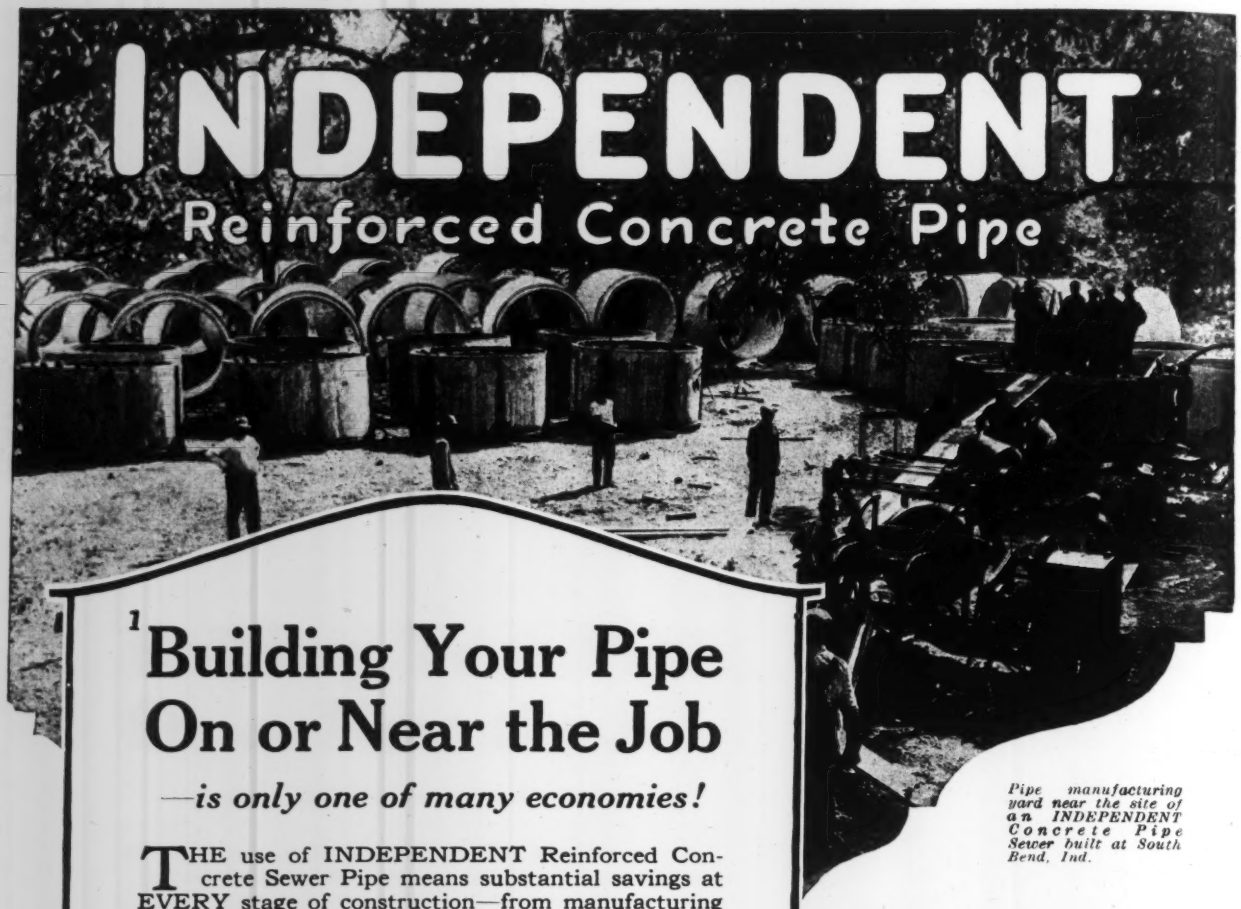
INDEPENDENT
Reinforced Concrete Pipe



Pipe manufacturing yard near the site of an INDEPENDENT Concrete Pipe Sewer built at South Bend, Ind.

1 Building Your Pipe On or Near the Job

—is only one of many economies!

THE use of INDEPENDENT Reinforced Concrete Sewer Pipe means substantial savings at EVERY stage of construction—from manufacturing the pipe to sealing the sewer joints.

We build the pipe in a special plant—right on the job, or nearby. Local labor and materials are used wherever possible. Manufacturing costs are kept low. High quality pipe is assured by expert supervision and constant inspections. The finished pipe are delivered along the line of trench, all ready for the contractor to lay.

Large savings are also effected in laying the pipe. The sections can be handled speedily and cheaply. Joints are easier to seal, even under difficult trench conditions—the "Recessed Joint" can be sealed quicker, better and at lower cost, than any other type of sewer joint. Backfilling can follow immediately.

The final economy is the long life of the completed sewer. Let us quote you on your next concrete sewer job. Write, wire or phone us, (Main 2131.)

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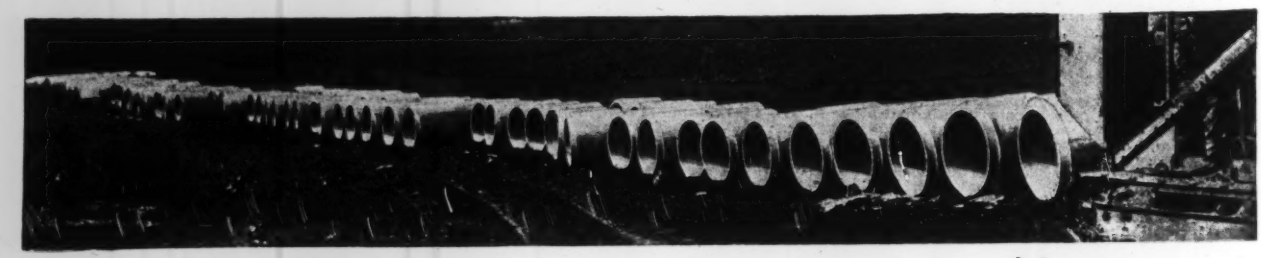

Sewers (Continued)

D. C., Wash. — Apr. 26, by District Comrs., District Bldg., 10,313 lin.ft. 10 in. to 8 ft. sewer; adv. E. N.-R. Mar. 31.

Ga., Jesup—See "Streets and Roads."

Ala., Birmingham — May 2, by City Comn., 2.5 mi. brick and concrete masonry, terra cotta or concrete sewers, etc. in Jasper Rd., 7th Ave. W., 3rd Ave. W., Owenton Ave., 7th St. W., 6th St. W., 3rd St. W., 4th St. W., and 8th St. W., all in Graymont suburb. A. J. Hawkins, city engr.

Miss., Columbia — See "Streets and Roads."

Ky., Louisville — Apr. 29, by Comrs. Sewerage, Bd. of Trade Bldg., 3rd and Main Sts., M. H. Crawford, chn., constructing 4th St. Relief Sewer, Contr. 33. J. B. F. Breed, ch. engr.; adv. E. N.-R. Mar. 31. Noted Feb. 3.

O., Akron—Apr. 7, by W. F. Peters, dir. Pub. Serv., 1,710 ft. 24 in. vitr. clay sewer, etc. in Hawkins Ave., $28,800; and 4,475 ft. 8- to 10-in. Hawkins and Delia Sts., $21,300. J. E. Root, Municipal Bldg., engr.

O., Cincinnati—Apr. 12, by Comrs. Hamilton Co., 1,013 ft. 6- to 8-in. vitr. clay sewer 26, Dist. 4. L. C. Boyatt, Court House, engr. Noted Mar. 3.

O., Cleveland—Apr. 6, by City, sewer in West 159th St., Melville Rd. N. E., Shiloh Rd. N. E., Burke Brook from Bway. S. E. to East 71st St., Burke Brook from East 64th St. to East 71st St., Division Ave., N. W., Gibson Ave. S. E., Glendale Ave. S. E., Harvard Ave. S. E., from East 143rd to East 148th Sts., Harvard Ave. S. E. from East 148th St. to city limits, Kipling Ave. N. E., Oak Ave. S. E. E., Ralph Ave. S. W. and Silverdale Ave. S. W., also Linn Dr. relief sewer near Helena Ave. R. Hoffman, City Hall, engr.

O., Parma (br. Cleveland)—Apr. 1, by Village, sewers and watermains in 5 streets. R. F. MacDowell, Chester-Twelfth Bldg., Cleveland, engr.

O., Rocky River (br. Cleveland)—Apr. 5, by Village, sewer in Hilliard Rd., east of Wooster Rd. $40,000. E. H. Arnold, Town Hall, engr.

Mich., Royal Oak (Ind. br. Detroit)—Apr. 5, by R. B. Fleming, city clk., Storm Water Sewer 16, 4,508 lin.ft. 10- to 24-in. pipe; Storm Water Sewer 17, 9,229 ft. 10- to 30-in. pipe; Storm Water Sewer 18, 12,258 lin.ft. 10- to 48-in. pipe; also Lateral Sanitary Contr. 68, 4,600 ft. 8- to 10-in. vitr. pipe. Hoard, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs. Noted Jan. 13.

Ill., Pekin—Apr. 5, by City, 4,070 ft. 10- to 24-in. tile sewers, etc., in various streets. Kinsey Eng. Co., Arcade Bldg., Pekin, engrs.

Ill., Springfield—May 2, by Bd. Trustees Springfield Sanitary Dist., S. S. Breese, pres., regulator for town branch intercepting chamber; adv. E. N.-R. Mar. 31.

Ia., Charles City—Apr. 5, at office Auditor Floyd Co., 1,800 ft. 8 in., and 3,300 ft. 6 in. tile drains, also 4 intakes, Road 218. J. H. Curtiss, supt.

Minn., St. Paul—Apr. 4, by A. E. Eggert, city purch. agt., Belt Line-Phelan Park Sewer Extension 2, 5,178 ft. 12- to 42-in. pipe, 20 standard manholes No. 1, and 5 manholes No. 2, 23 catchbasins, two 12 in. standpipes, approximately 685 ft. 12 in. standpipe for catchbasins. $30,000. G. M. Shepard, city engr. Noted Dec. 2.

Kan., Pratt—Apr. 8, by City Clerk, sewage disposal plant. $25,000. Haskins & Crawford, 822 Finance Bldg., Kansas City, Mo., engrs. Noted Mar. 24.

N. D., Rolla—See "Waterworks."

Mo., New Madrid—Apr. 14, by R. L. Jones, city clk., 58 manholes, 1 drop manhole, 13 flush tanks, pumping station incl. two 150 g.p.m. vertical centrifugal pumps, with motors and starters, and 31,315 ft. 8- to 12-in. sewers in various streets. A. C. Moore, Joplin Natl. Bank Bldg., Joplin, engr. Noted Mar. 24.

Calif., Huntington Beach—C. R. Furr, city clk., taking bids 8 in. vitr. sewers, etc. in East Side Sewer Project. $25,000 or more. M. Rosson, city engr.

Calif., Los Angeles—Bd. Pub. Wks., taking bids storm drains in Sect. 3 Jefferson Storm Drain System. To exceed $25,000.

Calif., Los Angeles—Bd. Pub. Wks. taking bids 10,823 ft. 8 in. D and W S vitr. and 85 ft. 24 in. sewer, etc., in Stearns Dr. and Airdrome St. Sewer Dist.

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in 23rd and Woodside Aves., to Manmill Constr. Co., 2035 Douglas St., $1,420 and $669 respectively; in 83rd St. and Avenue T, to V. Peconi, 152 East 4th St., $4,732 and $1,779 respectively; in East 42nd and 59th Sts., to S. Guerriero, 1024 66th St., $3,419 and $2,395 respectively; in Midwood St., to Tomassetti & Co., Inc., 1133 60th St., $8,253. Grand total $17,667. Noted Mar. 3 and Mar. 10.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Boston Rd., to A. Caserta, 2442 Barnes Ave., $2,855; in East 216th St. and Barnes Ave., to A. Gregorio & Co., Inc., 112 Neil Ave., $63,976 and $21,734 respectively. Grand total $88,565. Noted Mar. 24.

N. Y., St. George — See "Streets and Roads."

N. J., Nutley—S. Blum, town clk., Town Hall, storm water sewers in Daily St., Hawthorne and Bloomfield Ave., to W. J. D. Lynch Co., Inc., Franklin Ave., $105,323. Noted Mar. 24.

Md., Baltimore — Bd. Awards, storm drains and sanitary sewers in Storm Water Contr. 102, to Ryan Constr. Co., Rhawn St., Phila., Pa., $289,980.

O., Akron—W. F. Peters, dir. Pub. Serv., 1,710 ft. 8- to 24-in. vitr. clay and 3,965 ft. 30- to 51-in. segmental block sewer in Glenwood and Dan Sts., to McAlonan Bros., 506 Woodland Ave., $63,777 engrs. est. $79,000; also 1,010 ft. 30- and 48-in. segmental block sewer in connection with opening North Forge St. under railroad tracks, to B. F. Perry, 788 Noble Ave., $30,788 engrs. est. $27,500. Noted Feb. 17.

O., Cleveland—Cuyahoga Co., 21,000 ft. 8- to 60-in. concrete sewer in Pearl and Stumph Rds., to Hadded-Mall Co., Schofield Bldg., $281,681.

O., Cleveland—City, to F. O'Shea, 968 Selwyn Rd., Cleveland Heights, 1,040 ft. 12 to 15-in. vitr. tile sewer in East 130th St. $4,574, and 430 ft. 12 in. Ely Ave. $1,755, to W. Burkhardt, 3095 West 20th St., 475 ft. 12 in. East 138th St. $1,862, to E. P. Langenhan Constr. Co., Marshall Bldg., 1,200 ft. 15 to 18 in. Matherson Ave. $5,292, 4,200 ft. 15 to 18 in. Northcliffe Ave. $13,002, 1,060 ft. 12 to 15 in. Westdale Ave. $4,096, and to Khury Constr. Co., 650 East 91st St., 1,005 ft. 15 to 18 in. Octavia Ave.; to E. Cesa, 2462 Baldwin Rd., 930 ft. concrete sewer in Archmere Ave. $1,280, and to Assad Co., 1432 Castle Ave., 245 ft. Miller Court $1,224; to Iafornaro & Nero Constr. Co., Union Mortgage Bldg., 1,518 ft. 8 ft. brick and 115 ft. 8 ft. circular E sewer in Mill Creek Branch $65,207.

O., Lyndhurst (br. Cleveland) — Sewers in various streets, to Sprague & Burkhardt, 11811 Browning Ave., $71,900; to Angelo Marra Co., Engineers Bldg., $22,760, and to George & Ameen, Erie Bldg., $104,300. Grand total $198,960.

Ind., South Bend — Bd. Pub. Wks., 4.5 mi. precast rein.-con. sewers in Northwest section city, to J. J. Dunnegan Constr. Co., Shenandoah, Ia., $1,425,466. Engrs. est. $1,738,086. Noted Mar. 3.

Ill., Chicago—Sanitary District of Chicago, 910 South Michigan Ave., West Side Sewage Treatment Works, Div. F, pumps, to Worthington Pump & Machy. Corp., 115 Bway., New York City, $18,000; Div. G, sludge ejectors, to Nash Eng. Co., South Norwalk, Conn., $50,000; Div. H, boilers, to Robert Gordon, Inc., 22 West Austin Ave., $49,000; and Div. I, valves, to Chapman Valves Mfg. Co., Indian Orchard, Mass., $25,000. Grand total $142,000. Noted Feb. 10.

Neb., Gothenburg — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Mo., Campbell — Sewerage system, to Rowan & Rickard, 6 Natural Gas Bldg., Pine Bluff, $31,500.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, West Mill Creek Relief Sewer, 3690 ft. 13 x 13 ft., and 1,315 ft. 9 x 9 ft. horseshoe sections excavated in tunnel concrete lined and 5 concrete lined shafts, to Frazier-Davis Constr. Co., Arcade Bldg., $664,925. Noted Feb. 24.

Tex., Brownsville—James-Dickinson Co., c/o Travelers Hotel, cement storm and sanitary sewers in 90 acre tract in Los Ebanos sub-division near here, to Agar & Gentry, San Benito, approximately $35,000 and $42,500 respectively. Noted Jan. 6, under "Unclassified."

Tex., Ft. Worth—City, O. E. Carr, mgr., sanitary sewers in Rosen Heights, to E. Long, 1828 Tremont St., $45,727.

Tex., Houston—Sewers in Wayside Dr., 67th St. and Ave. N, to C. K. Horton, 2202 Clay St., $34,698. Engrs. est. $40,000.

Tex., Plainview — Knoohuizen, Boyd & Davenport, Plainview, 2 mi. sanitary sewers in West Hillcrest addition, to R. Irick, Plainview, approximately $28,600.

Calif., Los Angeles—To R. A. Wattson, 1026 North McCadden Pl., sewer in La Cienega Blvd. and Cadillac Ave., main sewer $93,800, house sewers $1.25 per ft., etc., total approximately $111,916.

Bridges

Proposed Work

Me., Skowhegan — See "Streets and Roads."

Me., Winslow—See "Streets and Roads."

Me., York—See "Streets and Roads."

Mass., Bridgewater — See "Streets and Roads."

Mass., Montague — See "Streets and Roads."

Mass., Southbridge — See "Streets and Roads."

N. J., Newark—Lehigh Valley R.R. Co., 143 Liberty St., New York City, G. T. Hand, ch. engr., and Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., T. J. Skillman, ch. engr., made plans 3,950 ft. bridge over Newark Bay, here. $4,000,000. This corrects report in Mar. 24 issue.

W. Va., Clarksburg — Election Apr. 19, $550,000 bonds, constructing 5 bridges. T. Long, city engr.

Kentucky and Illinois—Paducah Bd. of Trade, Paducah, Ky., C. W. Craig, secy., plans 2,200 ft. concrete swing or lift span bridge across Ohio River between Paducah, Ky. and Brooklyn, Ill. $2,100,000.

Ky., Henderson—See "Streets and Roads."

O., Cleveland—Bd. Comrs. Cuyahoga Co. making plans 100 ft. concrete bridge, 66 ft. roadway, Wooster Pike. $65,000. F. Lander, Court House, engr.

O., Ivorydale (br. Cincinnati)—Hamilton Co. (Cincinnati) plans replacing Mill Creek Bridge. $67,000. E. A. Gast, Court House, Cincinnati, co. surv.

Ill., Carrollton—Greene Co., election Apr. 25, $50,000 bonds, reconstructing various bridges damaged by floods. W. P. Witt, co. highway supt.

Ill., Chicago—Cook Co. Hy. Dept., making plans and soon takes bids three 2 span 100 x 54 ft. rein.-con. bridges, over Salt Creek, one at 31st St. near Wolf Rd., one at 31st St. at Riverside, Ill. and other at 17th Ave.; also three 3 span, 250 x 54 ft. rein.-con. bridges over Des Plaines River, one at Devon Ave., one at Lawrence Ave. and other Irving Park Blvd. G. A. Quinlan, County Bldg., supt.

Wisconsin—State Hy. Comn., Madison, made plans Krug Bridge, Buffalo Co.; Cunningham Bridge, town of Pine Valley, Clark Co.; Miller Bridge, town of Trenton, Dodge Co.; Slaughter House Hill Bridge, Menomonie, Dunn Co.; Raymond Bridge, Auburn, Fond du Lac Co.; Burrill Bridge, Forest Co.; Gried Bridge, Beetown, and Garvin Bridge, Woodman, both Grant Co.; Heineman Bridge, Merrill, Lincoln Co.; Neuman and Plisch Bridges, in Berlin, Kiehler Bridge, in Hamburg, and Riverside Bridge, town of Hull, all Marathon Co.; Kielzewski Bridge, town of Dewey, Portage Co.; Jump River Bridge, Catawba, Price Co.; Nelson Bridge, Raymond, Racine Co.; Fortune Bridge, Kinnickinnic, and Vanderburg Bridge, Hammond, St. Croix Co.; Hahn Bridge, Fremont, Waupaca Co.; and Ganzer Bridge, also extending Blank Bridge, Wonewoc, Juneau Co. C. H. Kirch, Madison, bridge engr.

Kan., Newton—City Clerk rejected bids Mar. 7, 168 ft. concrete bridge with 24 ft. roadway. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Mar. 3.

Kan., Wichita—Election Apr. 5, $55,000 bonds, rein.-con. bridge across Big Arkansas River, near Meridian Ave. P. L. Brockway, City Hall, engr.

Missouri—State Hy. Comn., Jefferson City, making plans two 5 ft., ten 10 ft., three 12 ft., eight 16 ft., twenty 20 ft., and two 35 ft. rein.-con. slab spans, etc. in 6 counties; one 24 ft., thirteen 30 ft., two 25 ft., five 35 ft., twenty-three 40 ft., two each 45 ft. and 50 ft., 100 ft. and 120 ft. rein.-con. deck girder spans, etc. in 9 counties; 6 ft., 8 ft., 80 ft., 100 ft. and 120 ft. arch spans, etc. in Green and Chariton Counties; four 70 ft., two 80 ft. and one each 85 ft., 90 ft., and 100 ft. steel truss spans, etc. in Oregon, Greene, Chariton and Sullivan Counties; also four 35 ft. I-beam spans, etc. in Sullivan Co. T. H. Cutler, ch. engr.

Tex., Cold Springs — See "Streets and Roads."

Tex., Jefferson — See "Streets and Roads."

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LET'S LOOK INTO HANDLING COSTS!

HERE are some material handling costs based on a time study of Industrial Machines operating eight hours a day, with one operator working eight hours a day, at 80c. per hour. The operating cost includes depreciation over a period of ten years, interest on the investment, fuel, labor, oil, grease and maintenance.

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Bridges (Continued)

Tex., La Grange — See "Streets and Roads."

Tex., San Angelo — See "Streets and Roads."

California—State Hy. Comn., Sacramento, making plans concrete bridge over Pollard Gulch near Lamoine, Shasta Co. $75,000 or more. R. M. Morton, Strub Bldg., engr.

California — State Hy. Comn., Sacramento, plans repairing pile trestle and rip-rap bridge over Santa Ana River, $61,300, funds appropriated; also pile trestle at Trabuco Creek, $67,810, funds appropriated. R. M. Morton, Strub Bldg., Sacramento, engr.

Bids Desired

Massachusetts — Apr. 12, by Essex Co. Comrs., Court House, Salem, rebuilding East Sagus Bridge, rein.-con., from Boston St., Lynn, to Lincoln Ave., Saugus. $25,000 or more. R. H. Mitchell, chn.

N. Y., New York—Apr. 13, by J. Miller, pres. Manhattan Boro, Municipal Bldg., steel viaduct, grading, curbing, flagging and 2 in. sheet asphalt on concrete paving, approaches, Riverside Dr. W. from West 155th to 161st Sts.

N. Y., Rye—Apr. 12, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, stone and timber faced rein.-con. bridge over Blind Brook, in Cross County Parkway, here. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Mar. 31.

Pennsylvania — Apr. 6, by E. Huston, controller Fayette Co., Court House, Uniontown, 2 rein.-con. and steel bridges over Redstone Creek, one at Smock, and other at Grindstone.

Georgia — Apr. 8, by State Hy. Dept., East Point, bridge over Etowah River south of Cartersville, Bartow Co.; 3 concrete bridges, one over Chattooga River at Trion, Chattooga Co., one over Randall Creek, Muscogee Co., and other at Bowens Mill, Ben Hill Co. W. R. Neel, highway engr.

Georgia—See "Streets and Roads."

Ala., Wetumpka—Apr. 6, by Comrs. Elmore Co., 406 ft. bridge over Weoka Creek, 348 ft. bridge over Shoal Creek, and 290 ft. bridge over Sofkahatchee Creek, all I-beam spans with concrete roadways, etc.

O., Dayton—Apr. 23, by F. A. Kilmer, clk. Montgomery Co., constructing concrete abutments, and steel single 150 ft. span thru truss highway bridge over Stillwater River, on Dog Leg Pike. $50,000. W. O. Pease, Court House, co. surv. Noted Mar. 24.

Ind., Goshen—Apr. 8, by C. A. Croop, aud. Elkhart Co., rein.-con. arch bridge over St. Joseph River, North Main St., rein.-con. arch bridge over Elkhart River, West Lincoln Ave., removing and re-erecting steel trusses over Elkhart River and Rock Creek Run. Noted Feb. 3.

Illinois—Apr. 13, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 40 ft. and one 50 ft. concrete girder bridge on Route 78, Sect. 104-B, Jo Daviess Co.; one 23 ft. and one 24 ft. slab and one 42 ft. concrete girder bridges, Route 78, Sect. 128-B, Stark Co.; one 25 ft. slab and one 100 ft. substructure for steel superstructure, Route 78, Sect. 129-B, Stark and Peoria Counties; one 100 ft. superstructure for steel span, Route 78, Sect. 129-C, Peoria Co.; one 40 ft. and five 55 ft. girder bridges and one 26 ft. slab bridge on Route 80, Sect. 104-B, Carroll Co.; one 20 ft. and one 27 ft. slab and one 30 ft. girder bridges, on Route 100, Sect. 118-B, Pike Co.; one 20 ft. and one 26 ft. slab and one 30 ft. girder bridges, Route 121, Sect. 139-B, Macon Co.; also one 40 ft. and three 50 ft. girder bridges, on Route 121, Sect. 145-B, Douglas Co. F. T. Sheets, ch. engr.

Wis., Fond du Lac—See "Streets and Roads."

Wis., Sparta—Apr. 6, by City Attorney, 40 ft. concrete girder bridge 30 ft. roadway and two 6 ft. sidewalks. F. J. Davy, La Crosse, engr. Noted Jan. 6.

Ia., Waverly—Apr. 5, at office Auditor Bremer Co., one 40 x 20 ft. pony truss bridge and 18 box culverts. O. C. Thompson, Waverly, co. engr.

Kan., Clay Center — Apr. 7, by E. G. Gunter, clk. Clay Co., Court House, Morganville Bridge, one 200 ft. steel and one 30 ft. approach spans, also lowering two 125 ft. old steel spans on tubular piers, over Republican River, on Bloom Rd., 22,200 lb. reinforcing, 238,000 lb. structural steel, 2,160 ft. plain and 160 ft. treated piling, etc. H. L. Stevens, Court House, engr.

Mo., Bellefontaine (mail Chesterfield) — Apr. 4, by Harrington, Howard & Ash, engrs., Orear-Leslie Bldg., Kansas City, approximately 2,500 ft. rein.-con. and steel bridge over Missouri River, here, for Alton-St. Louis Bridge Co., St. Louis.

Wyoming—See "Streets and Roads."

Washington—See "Streets and Roads."

Wash., Van Zandt—Apr. 8, by Comrs. Whatcom Co., Bellingham, 150 ft. steel span bridge over Nooksack River, here. $25,000.

Que., St. Maglovie de Bellechase—Apr. 4, by J. A. Pigein, secy., steel bridge with concrete foundations. $25,000. E. I. Vallee, Quebec, engr.

Contracts Awarded

New York — Superintendent Pub. Wks., Albany, plans bridge over Normanskill Creek from Delaware Ave., Albany to County Highway 7, in Bethlehem. $250,000. Cost to be borne by State, Albany Co. and City of Albany. Noted Feb. 18, 1924 under "Albany."

Kan., Madison—Greenwood Co., Martindale Bridge, 120 ft. arch span and 50 ft. deck girder span, 20 ft. wide, on Madison-Gridley Rd., to Marsh Bridge Co., 323 New England Bldg., Topeka, $26,096.

Neb., Gothenburg — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

South Dakota—See "Streets and Roads."

Mont., Helena—State Hy. Comn., bridge over Dearborn River, in Lewis and Clark Co., to O'Brien & Lordan, Butte, $28,376. Engrs. est. $30,000. Noted Feb. 24.

Wash., Hoquiam — State Hy. Comn., Olympia, bridge over Hoquiam River, Simpson Ave., here, to Puget Sound Bridge & Dredging Co., 811 Central Bldg., Seattle, $349,569. Noted Feb. 24.

Dams

Bids Desired

Calif., Sonora—Waud, Ramelli & Lewis, 428 Oak St., Ventura, taking bids multiple arch concrete dam, here, 245 cu.yd. "A" and 168 cu.yd. "B" concrete, 55 cu.yd. rock excav., 24,600 lb. reinforcing, 7,700 sq.ft. gunite lining, for Twain Harte Realty Co.

Railways

Proposed Work

Alabama — Birmingham Southern R.R. Co., J. B. McIntyre, ch. engr., Fairfield, plans extending 2.4 mi. lines, to replace trackage rights over tracks of Tennessee Coal & Iron Co., etc.

Texas—See "Buildings—Industrial under Slaton."

Bids Desired

Texas—Apr. 7, by Quanah, Acme & Pacific R.R. Co., C. H. Sommer, pres., Frisco Bldg., St. Louis, Mo., (subsidiary of St. Louis-San Francisco R.R. Co., F. G. Jonah, ch. engr., Frisco Bldg., St. Louis, Mo.), 27 mi. new line with necessary side tracks, etc. from McBain to Floydada, here. $1,132,000. Noted Dec. 2.

Contracts Awarded

Georgia and South Carolina—Georgia & Florida Ry. Co., Augusta, Ga., H. B. Holmes, ch. engr., extending 56 mi. railroad, etc., from Augusta, Ga., to Greenwood, S. C., to Winston & Co., Inc., Amer. Natl. Bank, Richmond, Va., $2,036,000 Engrs. est. $2,000,000. Noted Jan. 6.

Colorado—Denver & Rio Grande Western R.R., A. O. Ridgway, ch. engr., Equitable Bldg., Denver, widening, eliminating curves and grades, etc., 40 mi. road between Parkdale and Salida, to Platt Rogers, Inc., 29th St. and Grand Ave., Pueblo, approximately $500,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Tex., Edinburg — Hidalgo Co. Water Impvt. Dist. 6, D. G. Wood, pres., Mission, election soon $50,000 bonds, reclaiming 25,000 acres to irrigate land in Marvin Goodwin tract, near here. Private plans. Noted Jan. 27.

Tex., Houston—Election Apr. 11, $250,000 bonds, straightening and widening Buffalo Bayou. J. C. McVey, city engr.

Bids Desired

N. Y., Brooklyn—Apr. 6, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, dredging Newtown Creek Canal and basins, also Gowanus and Wallabout Canals.

N. Y., Long Island City—Apr. 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., public beach along ocean front, incl. bulkheads, groynes, jetties, breakwaters, and filling with sand from Beach 25th to Beach 54th Sts. Noted Mar. 24.

Ind., Goshen—Apr. 11, by H. G. Leedy, supt. constr. of drains, at office County Surveyor, Court House, repairing, extending, etc., Yellow Creek drainage system incl. Hoke, Bechtel, Fulmer, Bock, Owl Creek, Fetter, Martin and Andrew Wise drains, in Elkhart Co.

Ind., Washington — Apr. 7, by W. J. Shanks, constr. engr. at office Bd. Comrs. Daviess Co., constructing ditch, etc.

Ia., Dakota City—Apr. 5, at office Auditor Humboldt Co., channel change from Prairie Creek to west branch Des Moines River, Sect. 1, 14,784 cu.yd. excav., etc.

Ia., Osceola—Apr. 5, at office Auditor Clarke Co., filling in at 3 bridges, incl. 25,000 cu.yd. earthwork, etc.

Okla., Chandler—Apr. 4, by A. Burgess, clk. Lincoln Co., new drainage ditch in Dry Creek D. D. 6, incl. 170,000 yd. floating dredgework, etc. $35,000. H. J. Wilkins, 1815 West 9th St., Oklahoma City, engr.

Contracts Awarded

Pa., Connellsville — See "Streets and Roads."

Neb., Gothenburg—Bd. Dirs. Thirty Mile Canal Co., W. Soller, pres., constructing 35.4 mi. main canal, 44.4 mi. laterals, necessary bridges, etc., to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, $208,419. Noted Mar. 10.

Tex., Dallas—Southwestern Bell Telephone Co., Fidelity Union Bldg., excavation and plain foundation 14 story, basement and sub-basement, rein.-con. and steel, Akard St., to Henger & Chambers, Dallas Natl. Bank Bldg., $2,500,000, cost plus percentage basis. Noted Feb. 15, under "Buildings—Commercial."

Tex., Houston—Trinity Portland Cement Co., Santa Fe Bldg., Dallas, 829 wood piles for foundation retaining wall and 610 lin.ft. steel sheet piling, to D. Hall, Cotton Exch. Bldg., $55,000. Engrs. est. $60,000. Noted Feb. 17.

Calif., Santa Barbara — E. A. Rollison, mgr., City Hall, constructing breakwater, rubble mound type, 160,000 tons rock complete in place, to A. J. Grier, 480 Chetwood St., Oakland, $380,800. Noted Mar. 3.

Streets and Roads

Proposed Work

Me., Skowhegan — Plans reconstructing, repairing and bridging, etc., various roads. $42,516 appropriated. Private plans.

Me., Winslow — Plans reconstructing roads and bridges. $25,000 voted. Private plans.

Me., York—Plans resurfacing Bald Head Cliff Rd., repairing highways, and bridges on various roads. $38,000 appropriated. Private plans.

New Hampshire—State Hy. Dept., Concord, plans 3 in. bituminous macadam paving 8,500 sq.yd. Daniel Webster Highway, Belknap Co. $26,000, and 8,400 sq.yd. East Side Highway, Carroll Co. $25,000; 6 in. rein.-con. on 3 in. gravel paving 12,300 sq. yd. Rockingham Rd., Rockingham Co., $46,000; 3 in. on 6 in. gravel surfacing 2.362 mi. Gorham Hill Rd., Cass Co. $52,000, and 1.931 mi. Contoocook Valley Highway, Merrimack Co. $55,000. F. W. Brown, div. engr.

Mass., Andover — Plans reconstructing highways and new roads $55,000 appropriated. Private plans.

Mass., Braintree — Plans reconstructing Independence Ave. from Quincy line to Vapen's Bridge. To exceed $25,000. Private plans.

Mass., Bridgewater — Plans repairing highways and bridges and reconstructing new roads. $25,870 appropriated. Private plans.

Mass., Cambridge (Boston P. O.)—Plans resurfacing Blake and Orchard Sts. To exceed $25,000. Private plans.

Mass., Methuen (br. Lawrence)—Plans reconstructing highways. $126,000 appropriated. Private plans.

Mass., Montague — Plans reconstructing and repairing highways and bridges. $44,500 appropriated. Private plans.

Mass., Needham — Plans reconstructing highways. $61,000 appropriated. Private Plans.

Constr. News page 2

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Streets and Roads (Continued)

Mass., Pittsfield—Plans constructing road from Onota St. to Burbank Park on Onota Lake. $25,000 or more. Address City Engineer, Park Comn.

Mass., Southbridge—Plans reconstructing highways and bridges. $25,900 appropriated. Private plans.

Mass., Watertown—Plans reconstructing Pleasant St. from Bridge St. to Waltham line. $91,800 appropriated. Private plans.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston. plans laying out and constructing Westover St. and Halford Rd. as highway, here. $25,000 or more. J. H. Sullivan, comr.

R. I., Providence — Plans constructing Barstow St. as highway. $25,000. Private plans.

N. J., Highland Park—Boro Council plans paving several streets. $290,000. R. P. Wilson, 46 Paterson St., New Brunswick, engr.

N. J., Union — Making plans concrete paving various streets. $210,000. H. Kreh, Jr., Union, engr.

Pa., Somerset—Comrs. Somerset Co. soon take bids paving roads from Somerset to National Pike, etc. $260,000. J. J. Stahl, pres. comn.

W. Va., Bridgeport—Voted $28,000 bonds, concrete paving portions Pennsylvania Ave., etc. Horner Bros., Clarksburg, engrs. Noted Mar. 3.

W. Va., Clarksburg — Election Apr. 19, $25,000 bonds, improving roads, and $80,000 bonds central fire station. T. Long, city engr.

Ala., Center — Cherokee Co. soon takes bids constructing highway from Center by way of Cedar Bluff to Georgia line. $164,000.

Ky., Henderson—Voted $1,000,000 bonds improving roads and bridges. Noted Feb. 10.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, curbing, walks and sheet asphalt paving 18,565 sq.yd. Bowery St. $109,800, and 2,200 sq.yd. Rose Blvd. $25,000; also grading, widening, curbing, and vitr. brick paving, etc., 4,100 sq.yd. North Summit St. $61,500, 4,190 sq.yd. Moreley Ave. $43,600, 2,420 sq.yd. Westwood Alley et al $23,000, and 1,200 sq.yd. McNaughton St. $9,100. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Bd. Control soon takes bids resurfacing 1¾ mi. Cleveland Ave. from 6th St. N. W. to Ridgeway Ave. N. W., 60 ft. $50,000-$60,000. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans sheet asphalt on concrete repaving 3,800 sq.yd. Baymiller St. from Findlay St., to Bank St. $27,839, and 12,500 sq.yd. 5th St. $114,400; also granite block on concrete repaving 4,500 ft. Baymiller St. from 7th St., to Liberty St., 30 ft., $156,201. C. O. Sherrill, City Hall, engr.

O., Dayton—Comrs. Montgomery Co., F. A. Kilmer, secy., rejected bids Mar. 17, macadam, concrete, rock asphalt, brick paving and surfacing, etc. 31 streets and roads. Will readvertise. W. O. Pease, Dayton. co. surv. $150,000. Noted Mar. 10.

Ill., Canton — Bd. Local Impvts. takes bids about May 15, grading, curbing and concrete paving 17 blocks various streets. $65,000. E. F. Motsinger, city engr.

Ill., Peoria—Plans grading, curbing and asphalt paving 9 blocks Maywood Ave. $64,103. W. E. Backes, City Hall, engr.

Ill., Woodriver—Election Apr. 5, $185,000 bonds, grading concrete paving, etc. 6.2 mi. various roads, in Woodriver Twp.

Ia., Russell—City Clerk takes bids about Apr. 8, 6 in. concrete paving 13,000 sq.yd. various streets. Brown & Cook, 108 North Market St., Ottumwa, engrs. Noted Mar. 10.

Kan., Cimarron—Soon takes bids grading, etc., 9.07 mi. Sect. D, Santa Fe Trail, Project 56, 30 ft. W. Barton, co. engr.

Missouri — State Hy. Comn., Jefferson City, making plans grading 6.33 mi. roads in Jefferson Co.; 30 ft. grading approximately 150 mi. roads in 20 counties; 18 ft. graveling 17.281 mi. roads in 8 counties; and 18 ft. concrete paving 6.33 mi. roads in Jefferson Co. T. H. Cutler, ch. engr.

Tex., Amarillo—Potter Co. election soon $500,000 bonds, hard paving 20 mi. roads leading into oil districts. Address S. Motlow, Amarillo, co. judge.

Tex., Beaumont—See "Unclassified."

Tex., Cold Springs — San Jacinto Co. making plans grading, bridging, etc., 5.87 mi. Highway 35, 26 ft. $130,000. J. L. Ross, Cold Springs, engr.

Tex., Dallas—Dallas Co. plans widening and repaving 1 mi. Bryan St. $600,000. E. A. Kingsley, city engr.

Tex., Dallas—See "Unclassified."

Tex., Halletsville — Lavaca Co., made plans gravel or macadam paving 11.07 mi. Highway 72, 18 ft. $108,000. W. H. Koether, Halletsville, engr.

Tex., Happy—Seisher Co. election soon, $30,000 bonds, permanent paving business and residential streets. Address Mayor.

Tex., Houston—Election Apr. 11, $1,000,000 bonds, permanent paving various streets. J. C. McVey, city engr.

Tex., Karnes City—Karnes Co. election soon $150,000 bonds, hard paving 6 mi. Poth Rd. Dist. $150,000. O. N. Powell, Karnes City, co. engr.

Tex., La Grange—Fayette Co. making plans grading, bridging and gravel surfacing, etc. 4 mi. Highway 71, 18 ft. $65,000. R. E. Schiller, La Grange, engr.

Tex., Laredo — Election soon $250,000 bonds, permanent paving business and residential streets. Address City Engineer.

Tex., Liberty — Liberty Co. election in April, $50,000 bonds, paving various streets. Address Mayor.

Tex., Poth — Wilson Co. (Floresville) plans election $150,000 bonds, hard paving 14 mi. San Antonio-Corpus Christi Highway, here. F. E. Hess, Floresville. co. engr.

Tex., Olmito (mail Brownsville) — A. Parker Securities Co., takes bids in April, 40 mi. concrete sidewalks on all streets. $45,000. Private plans.

Tex., Raymondville — Voted $100,000 bonds, paving 18 blocks various streets. $38,000. $62,000 will be used for paying outstanding warrents. Address Mayor. Noted Feb. 24.

Tex., San Angelo — Tom Green Co., making plans grading, bridging, etc., 14.7 mi. San Angelo-Robert Lee Highway, 26 ft. $65,000. T. J. Kelly, San Angelo, co. engr.

Tex., Spearman — Takes bids in April, curbing, and 2½ in. brick paving 17,700 sq. yd. business and residential streets. $75,000. Devlin Eng. Co., Amarillo, engrs.

Okla., Seminole—E. Magruder, city clk., rejected bids Mar. 1, grading, 7 in. concrete paving, etc., 9,800 sq.yd. West Bway., Dist. 3. $37,290. Will readvertise. V. V. Long & Co, 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 24.

N. M., Clovis—Takes bids after Apr. 15, graveling and paving 13 mi. various streets in residential district. $100,000. Devlin Eng. Co., Amarillo, engrs.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about Apr. 2, curbing, guttering, sidewalks and paving, etc., Venice Blvd., 16th, 17th and Center Sts. To exceed $25,000. J. C. Shaw, City Hall, engr.

Calif., Santa Ana—Plans curbing, walks and concrete paving, etc. East Washington Ave., etc. To exceed $25,000.

Calif., Santa Barbara—Santa Barbara Co. making surveys approximately 15 mi. Foothill Blvd. from Santa Barbara to Goleta. To exceed $150,000. O. H. O'Neil, Santa Barbara, co. surv.

Que., St. Barnabe — Plans graveling Colonization Rd. $50,000. A. Fraser, 16 Aberdeen St., Quebec, engr.

Que., Three Rivers—Plans concrete and amiesite paving Coteau St. Jean Baptiste St. $24,571. Z. Lambert, Three Rivers, engr.

Ont., Chatham—Kent Co. plans macadam or concrete paving approximately 10,000 sq.yd. streets in Raleigh and Tilbury E. Twps. $25,000. W. D. Colby, Harrison Hall, engr.

Ont., Guelph — Plans concrete curbing, guttering, concrete or asphalt on concrete paving 3,000 sq.yd. Yorkshire, Suffolk, Norfolk, King, Grange and Stewart Sts. $30,000. H. S. Nicklin, City Hall, engr.

Ont., Hamilton—Council Wentworth Co. plans paving various roads. $125,000. A. Lumsden, County Bldgs., Hamilton, engr.

Ont., London — Sarnia Council, A. Richards, chn. com. plans concrete paving various streets. $40,000.

Ont., Niagara Falls—Plans asphalt on concrete paving 6,000 sq.yd. Stanley St. $25,000. T. S. Scott, City Hall, engr.

Ont., St. Thomas—City Council plans probably asphalt on concrete paving 7,000 sq.yd. St. George, New, and Hincke Sts. $30,000. W. C. Miller, City Hall, engr.

Ont., Toronto—North York Twp. plans gravel paving Lewes Crescent; Connaught, Donino, Holmes and Pelmo Aves., $8,506; concrete paving Donwoods Dr., Donino Ave., Botham and Brook Sts. $33,960; extending and grading Avenue Rd., Grey and Ledbury Sts., $10,230. G. Baker, Willowdale, engr.

Ont., Toronto—City Council plans sidewalks, widening and sheet asphalt paving Poplar Plains Rd. from Coltingham St. to Clarendon Ave. $73,000. R. C. Harris, City Hall, engr.

Ont., Toronto—City Council plans asphalt surfacing Eastern Ave., Simcoe St. and 2 lanes. $25,519. R. C. Harris, City Hall, engr.

Bids Desired

Massachusetts—Apr. 5, by Dept. Pub. Wks., Boston, bituminous macadam paving 21,916 ft. highway in Haverhill and North Andover; 5,194 ft. in Needham; and 3,052 ft. in Billerica, all 18 ft. W. F. Williams, comn.

Massachusetts—Apr. 12, by Dept. Pub. Wks., Boston, bituminous macadam paving 19,048 ft. highway in Ashburnham and Westminster; also 31,912 ft. in Becket and Otis. W. F. Williams, comr.

Mass., Boston—Apr. 4, by Supply Dept., 1,600 tons road asphalt for construction OA-2, on such streets as designated. H. S. Frost, supt.

Mass., Boston—Apr. 5, by Dept. Pub. Wks., recut granite block paving Dock Sq. and Faneuil Hall Sq. $25,000. J. H. Sullivan, comr.

Mass., Brookline (br. Boston)—Apr. 4, by Bd. Selectmen, Town Hall, repairing and constructing coal tar concrete sidewalks, driveways, streets crossings, gutters and areas for ensuing year, also edgestones.

Rhode Island—Apr. 11, State Bd. Pub. Roads, State House, Providence, bituminous macadam paving 3.5 mi. Contr. 2701, 7.6 mi. Contr. 2702; sheet asphalt on concrete and waterbound paving ½ mi. Contr. 2704; penetration macadam and trap rock paving ½ mi. Contr. 2706; adv. E. N.-R. Mar. 31.

N. Y., Long Island City—Apr. 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, etc. 86th Rd., Rockaway Blvd., 59th Pl., 90th, 95th and Grandview Aves.; grading, curbing and sheet asphalt paving 86th Rd., Kingsland, 91st and 43rd (Foster) Aves., 114th St., etc.

N. Y., New York—Apr. 4, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and sheet asphalt on concrete repaving Madison Ave. and Bway. (west side) except 10 in. strip adjacent and parallel to railroad tracks; laying and relaying sidewalks and curbs when and where directed during 1927; also grading and granite block on concrete paving Marginal St.

N. Y., New York—Apr. 6, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., granite block on concrete repaving Brook Ave. from East 132nd to East 137th Sts., and from East 139th St., to Westchester Ave.

N. Y., St. George—Apr. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Prince St. and Maple Ave.

New Jersey — Apr. 18, by State Hy. Comn., Trenton, grading, bridging and 8 in. double line rein.-con. paving 83,552 sq.yd. Route 18 (South) Sect. 16, and Route 20 Sect. 8, Gloucester Co., A. L. Grover, secy.; adv. E. N.-R. Mar. 31.

N. J., Bridgeton—Apr. 12, by E. C. Ott, ch. Pub. Rd. Com., Court House, sheet asphalt, rein.-con., fine aggregate bituminous concrete, or coarse bituminous concrete paving Port Norris-Mauricetown Rd., Cumberland Co. W. M. Sharp, Brighton, co. engr.

N. J., Dumont—Apr. 13, by Road Com., F. E. Wolcott, chn., Forum Bldg., Madison Ave., grading, curbing and 6 in. concrete paving Seneca Ave., and Niagara St.; also 8 in. concrete paving New Milford Ave. C. C. Freeborn, Jr., Kolberg Bldg., boro engr.; adv. E. N.-R. Mar. 31.

N. J., Rutherford — Apr. 5, by Boro Council, City Hall, Park Ave., 6 in. rein.-con. or 2 in. asphaltic wearing course on 6 in. penetration method paving Wood St. and Newell Ave. H. E. Allen, boro engr.; adv. E. N.-R. Mar. 31.

N. J., Toms River—Apr. 5, by Freeholders Ocean Co., Court House, bituminous macadam on slag surfacing 39,380 sq.yd. Sect. 9, and 29,485 sq.yd. Sect. 10 Lakewood-New Egypt Rd., Jackson Twp. J. M. Abbott, Toms River, co. engr.; adv. E. N.-R. Mar. 31. Noted Jan. 20.

Pa., Altoona—Apr. 5, by City Council, B. Keatley, comr., City Hall, grading, concrete paving, etc., 18,000 ft., 32 streets, avenues and alleys, 16 to 24 ft. $160,000. H. J. Baum, City Hall, engr.

Pa., Ambridge—Apr. 4, by Comrs. Beaver Co., Court House, Beaver, concrete paving roadway on Ambridge-Woodlawn Bridge over Ohio River. $50,000.

Pa., Dormont (mail Pittsburgh)—April 1, by Boro Council, improving various streets in Dormont Park, 14,000 cu.yd. grading, 7,300 ft. concrete curbing, 11,000 sq.yd. brick paving, and 6,850 ft. 8- to 24-in. terra cotta sewers, etc. $50,000. Vogeler Ramsey & Co., Bakewell Bldg., Pittsburgh, engrs.

Pa., Phila.—Apr. 5, by Dept. Pub. Wks., Bureau of Highways, grading, asphalt

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paving (assessment work), Hillside vitr. block paving (assessment work), redressed granite block paving (assessment work), asphalt repaving, redressed granite block repaving, improving country roads, dryers for asphalt plant; repairing bridges, etc. G. H. Biles, dir.

Pa., Southmont (mail Johnstown), Pa.—Apr. 11, by R. G. Wertz, boro secy., improving Becon, Lucetta, Olive, Helen and Mabel Sts., 6,600 cu.yd. excav., 5,700 ft. concrete curbing, 3,500 lin.ft. 6- to 12-in. sewers, etc. S. E. Dickey & Co., Johnstown Trust Bldg., Johnstown, engrs.

Pa., Uniontown—Apr. 6, by Comrs. Fayette Co., Court House, one course rein.-con. paving, etc., 16,883 ft. High House-Woodside Rd., Georges, German and Nicholson Twps.; 10,818 ft. Hopwood-Fairchance Rd., Georges Twp., Fairchance Boro; 7,600 ft. Prittstown-Wooddale Rd., Upper Tyrone and Bullskin Twps.; 1,200 ft. River Rd., Brownsville Twp.; and 7,848 sq.yd. Redstone-School-Lamb Lick Run, Washington Twp. E. Huston, comr.

Del., New Castle—Apr. 12, by New Castle Levy Court, probably concrete paving 0.42 mi. Hillcrest Ave. in Brandywine Hundred; also reconstructing 0.82 mi. Bethlehem causeway in New Castle Hundred. 20 ft. C. E. Grubb, New Castle Co., Pub. Bldg., engr.

Md., Baltimore—Apr. 6, by Bd. Awards, concrete paving 8,400 sq.yd. various streets, Contr. 391, and 13,520 sq.yd. Contr. 394, also sheet asphalt paving 15,260 sq.yd. various streets, Contr. 393. S. Purcell, highways engr.

Md., Towson—Apr. 5, by Comrs. Baltimore Co., Courthouse, sheet asphalt (alternate for amiesite) paving 2.15 mi. Leeds Ave., 13th Dist., etc.; and concrete shoulders on Leeds, Wise and 5th Aves. S. A. Green, Courthouse, engr.

Georgia—Apr. 8, by State Hy. Dept., East Point, grading, etc. 5.4 mi. Butler Thomaston Rd. Taylor Co., 9 mi. Savannah-Sylvania Rd. Effingham Co., 8.5 mi. road from Alma toward Baxley to Appling Co. line Bacon Co., 11 mi. Dalton-Calhoun Rd. Whitford Co. and 3 mi. Calhoun-Dalton Rd., Gordon Co.; concrete paving in city of Manchester to Talbot Co. line, Meriwether Co.; penetration macadam paving 2.5 mi. Sandersville-Tennille Rd., Washington Co., 7 in. compacted rolled paving 6 mi. Clayton-Franklin Rd., Rabun Co.; 3 in. compacted penetration macadam paving 8.7 mi. Decatur-Lawrenceville Rd., DeKalb Co.; concrete, 1½ in. sheet asphalt with 1½ in. binder, rolled base and penetration macadam with sheet or rock asphalt seal coat on rolled paving 4 mi. roadway in Terrell Co., 2.5 mi. roadway Richmond Co., and 11 mi. road Dooley Co.; medium type surfacing 6.1 mi. roadway Ware Co., and 13.7 mi. roadway Lee Co.; clay gravel surfacing 3.4 mi. Monticello-Gray Rd., Jones Co.; and grading approaches to bridge 2.8 mi. Lulaton to Atkinson, Brantley Co. W. R. Neel, highway engr.

Georgia—Apr. 7 and 8, by State Hy. Dept., East Point, grading and bridging 185.6 mi. 31 projects; penetration macadam and surface treating 72.3 mi. 9 projects; and paving 57.5 mi. 9 projects. $3,500,000. W. R. Neel, highway engr.

Ga., Jesup—Apr. 8, by Mayor and City Comrs., sheet asphalt, asphaltic concrete, Warrenite bitulithic, asphaltic macadam and concrete paving, incl. constructing storm sewers, etc. various streets. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, N. C., engrs.

Fla., Panama City—Apr. 8, by City Comn., constructing 26 mi. various streets and roads. $570,000.

Ala., Birmingham — Apr. 25, by City Com., cement sidewalks on 10 blocks 7th St. W., 4 ft., $5,700; also 2 in. asphalt on 5 in. concrete paving, etc., 3 blocks Ninth Court, 30 ft., $13,825, and 6 blocks 80th Pl. $19,350; also repairing cement sidewalks on 8 blocks 5th Ave., $6,200. A. J. Hawkins, city engr.

Miss., Columbia—Apr. 5, by City Clerk, grading, curbing, guttering 5,600 ft. 12- to 48-in. storm sewers, and brick, concrete or asphalt paving, etc. 11,625 sq.yd. various streets, also. H. A. Mentz, Hammond, engr. Noted Feb. 3.

Miss., Gulfport—Apr. 5, by Bd. Supervs. Harrison Co., asphalt, penetration or Warrenite paving 24,800 ft. Biloxi-Cedar Lake Rd., and 5 mi. road north side Louisville & Nashville R.R. tracks; graveling 8 mi. Saucier-Ramsey Springs Rd.; warrenite on shell paving 10,560 ft. road in Beat 3; also 3 creosoted piling bridges and 2 creosoted bridges on Pineville Rd. W. S. Hawkins, Court House, engr. Noted Mar. 10.

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Miss., Oxford — Apr. 5, by Bd. Supervs. Lafayette Co., grading, graveling, etc. 10 mi. Federal Aid Project 66-A, 18 ft.

La., Minden—Apr. 5, by Webster Parish Police Jury, J. H. Nelson, pres., grading, curbing and graveling, etc., 1,000 cu.yd. road in Cotton Valley, and 5 mi. in Sarepta.

O., Akron—Apr. 21, at office W. F. Peters, dir. Pub. Serv., City Hall., paving 15,660 sq.yd. Collinwood, Linden and Winton Aves., Haynes and South High Sts.; also repaving and resurfacing 51,000 sq.yd. Buchtel Ave., South Arlington and Bowery Sts. E. A. Kemmler, highway engr. Noted Jan. 27.

O., Cincinnati—Apr. 8, by Comrs. Hamilton Co., grading and asphaltic macadam paving 25,500 sq.yd. Kugler Mill Rd., $77,470; grading and tar bound macadam paving 5,800 sq.yd. Ebenezer Rd. $25,100, 7,200 sq.yd. Roebling Rd. $25,200, and 16,700 sy.yd. Anderson Ferry Rd. $50,665. E. A. Gast, Court House, engr. Noted Feb. 24.

O., Columbus—Apr. 12, by W. H. Duffy, dir. Serv., grading, curbing and asphalt paving, etc. 13,340 sq.yd. Broad St., $85,000; also grading, curbing and paving, etc. 1,485 sq.yd. Elm Court and Monypenny Ave., brick $9,580, asphalt $9,090.

O., Dayton — Apr. 7, by Comrs. Montgomery Co., Court House, brick, concrete, macadam, rock asphalt paving 15 streets and portions roads, here. $200,000. W. O. Pease, Dayton, co. surv.

O., Parma (br. Cleveland)—Apr. 4, by Village, vitr. brick, sheet asphalt or concrete paving 35,000 sq.yd. 4 streets Munz Eng. Co., Natl. City Bldg., Cleveland, engr.

Ind., English—Apr. 4, by Comrs. Crawford Co., Court House, grading and stone paving 18,480 ft. Elmer Merrilees et al., Road. J. Spears, English, aud.

Ind., Evansville—Apr. 11, by Comrs. Vanderburgh Co., asphaltic concrete paving Water Works Rd. $35,483. S. Bell, Evansville, aud.

Ind., Michigan City — Apr. 11, by City Comn., improving Oak and 6th Sts., Woodland, Wilshire and Valentine Aves. $103,181.

Ind., Winamac—Apr. 5, by Comrs. Pulaski Co., grading and graveling 15,840 ft. G. W. Anders Rd., in Van Buren Twp. R. E. Wilson, aud.

Mich., Center Line — Apr. 7, by A. Weigand, village clk., cross walks, and one course concrete paving, etc. 14,590 sq.yd. Warren Blvd. $50,000. W. J. Lehner, Mt. Clemens, village engr.

Mich., Marshall—Apr. 5, by Calhoun Co., Court House, graveling 8.299 mi. Marengo-Lee Rd., and 4.499 mi. East LeRoy Rd.

Mich., Paw Paw—Apr. 5, by Van Buren Co., Court House, graveling 2.95 mi. County Covert 56; and 3.5 mi. County Covert Rd. 45.

Illinois — Apr. 13, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick, asphalt filled, bituminous concrete with or without binder course paving 6.12 mi. Route 49, Sect. 109 Jasper Co., 9.66 mi. Route 49, Sect. 113 Clark Co., 5.03 mi. Route 51, Sect. 103 Cook Co. 7.91 mi. Route 51, Sect. 104, and 7.47 mi. Route 51, Sect. 105 both Will Co., 4.64 mi. Route 52, Sect. 521 Cook Co., 1.15 mi. Route 88, Sect. 127 Peoria Co., 6.67 mi. Route 121, Sect. 139 Macon Co., 4.42 mi. Route 121, Sect. 140 Piatt and Moultrie Counties, 8.16 mi. Route 121, Sect. 145, and 7.73 mi. Route 121, Sect. 146 both Douglas Co.; grading 9.6 mi. Route 78, Sect. 104-A Jo Daviess Co., 2.76 mi. Route 78, Sect. 128-A Stark Co., 2.37 mi. Route 78, Sect. 129-A Stark and Peoria Counties, 11.65 mi. Route 80, Sect. 104-A Carroll Co., 1.57 mi. Route 98, Sect. 110-A Fulton Co., and 2.98 mi. Route 100, Sect, 118-A Pike Co. F. T. Sheets, ch. engr.

Wis., Fond du Lac—Apr. 7, by G. Treleven, highway comr. Fond du Lac Co., Court House, grading, bridging and surfacing 1.81 mi. road from Campbellsport southeasterly to Junction of S.T.H. 55; 5.4 mi. road from Brandon north to Junction with S.T.H. 23; 6.16 mi. road from S.T.H. 23 north to Rosendale Center and 3.03 mi. from Rosendale Center north to County Line; also 3.4 mi. Ripon-Berlin Rd., etc. J. S. McCullough, co. highway engr.

Wis., Kenosha—Apr. 5, by J. F. Herzog, highway comr. Kenosha Co., grading, concrete paving, etc. 8,800 sq.yd. Milwaukee Rd., S.T.H. 57, Job. 2727.

Wis., Janesville—Apr. 2, by C. E. Moore, highway comr. Rock Co., grading, crushed rock surfacing, etc. 8,000 cu.yd. S.T.H. 61; graveling, etc. 1,200 cu.yd. Paddock Rd. in Newark, 2,800 cu.yd. Moseley Rd. in Beloit, 1,800 cu.yd. S.T.H. 140, Turtle Creek Rd., 2,100 cu.yd. S.T.H. 140, in Bradford, and 1,400 cu.yd. Carvers Rock Rd. A. L. Hambrecht, div. engr.

Wis., Kenosha — Apr. 5, by State Hy. Comn., Office County Highway Commissioner, grading, concrete paving, etc. 59,778 sq.yd. County Project Job 2675, and 17,673 sq.yd. Burlington Rd., both Kenosha Co. H. W. Vroman, div. engr.

Wis., Port Washington—Apr. 6, by State Hy. Comn., Office County Highway Commissioner, grading, concrete paving, etc. 59,328 sq.yd. County Project Job 2705, Ozaukee Co. H. W. Vroman, div. engr.

Ia., Dakota City — Apr. 5, at office Auditor Humboldt Co., improving Secondary Dist. 6, 9,800 cu.yd. gravel 1 mi. haul, 83,200 units ½ mi. haul, 2,700 cu.yd. stripping pit, etc.; Projects S-80 and S-81, 16,400 cu.yd. gravel 1 mi. haul, 114,000 units ½ mi. haul, 26,700 cu.yd. stripping pits, 26,700 ft. 6 in. tile in 4 in. ditch, etc.; Project S-135, 31,979 cu.yd. excav., 9,796 sta.yd. overhaul, 275 ft. culvert labor, clearing and grubbing.

Ia., Fairfield—Apr. 6, by Auditor Jefferson Co., grading, paving, etc. 69,676 sq.yd. Federal Aid Project 120.

Minn., Blue Earth—Apr. 4, by J. J. Kehr, city clk., various types paving, etc., 13,800 sq.yd. streets. $33,000. S. A. Siverts, Jr., 300 Builders Exch., Minneapolis, engr.

Minn., Duluth—May 25, by G. P. Phillips, city comr., concrete paving, etc., 6,166 sq. yd. 44th Ave., and 5th St. from 43rd to 44th Aves. W., $26,963; also 7,890 sq.yd. 5th St. from point 300 ft. east of 38th Ave. W. to 43rd Ave. W., $30,712. J. Wilson, city engr.

Wyoming—Apr .5, by State Hy. Comn., Cheyenne **(F. A. P. means Federal Aid Project and S. P. means State Project)**, one course rein.-con. paving, etc., 11.41 mi. F. A. P. 179-A, and 3.88 mi S. P. 656, Sheridan Co.; one course rein.-con. paving and bridging 1.777 mi F. A. P. 154-A, Big Horn Co., 0.8 mi. F. A. P. 38, Hot Springs Co., and 3.36 mi. S. P. 657, Park Co.; grading and constructing 24 ft. I-beam span bridge Thermopolis-Shoshoni Rd., F. A. P. 90, Hot Springs Co.; grading and bridging 10 mi. F. A. P. 159-C, Fremont Co., and 7.4 mi. F. A. P. 164-D, Notrona Co.; also constructing 32 x 60 ft. truck and sand shed on S. P. 660, Cody. Z. E. Sevison, ch. engr.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, rein.-con. paving, etc. 1,930 sq.yd. Blendon St., $9,680; granite block paving, etc. 11,300 sq.yd. Vandeventer Ave., $81,000; brick paving, etc. 1,240 sq.yd. Eitman St., $10,000; also grading and concrete paving approximately 16,750 sq.yd. alleys in City Blocks 2568, 2967, 3359, 4232, 4404-A, 5478, 5575, 5677, 5862, 5865, 5874 and 5875, $48,520. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Apr. 12, by Bd. Pub. Serv., 208 City Hall, asphalt paving, etc. 1,735 sq.yd. 39th St., $6,680; amiesite paving, etc. 3,850 sq.yd. Sherry Ave., $26,400; concrete paving, etc. Kingshighway Viaduct through Penrose Park $8,700, 1,985 sq.yd. Paul St. $10,800, and 4,675 sq.yd. Iowa St. $21,800; granite block paving, etc. 2,810 sq.yd. 9th St. between Washington St. and Franklin Ave. $21,520, 5,620 sq.yd. 9th St. between Biddle and Franklin Sts. $28,480, 4,490 sq.yd. 9th St. between Biddle and Cass Sts. $28,200, and 1,550 sq.yd. 11th St. $11,400; also warrenite bitulithic paving, etc., 4,190 sq.yd. Durant St. $29,720, and 3,825 sq.yd. Queens St. $26,800. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Apr. 19, by Bd. Pub. Serv., 208 City Hall, rein.-con. paving, etc. 3,300 sq.yd. Geraldine St. $18,000; asphalt paving, etc. 4,660 sq.yd. West Park St. $44,920; asphaltic concrete paving, etc. 3,115 sq.yd. Adams St. $18,920, 2,660 sq.yd. Leola St. $13,600, and 1,990 sq.yd. Michigan Ave. $7,680; amiesite paving, etc. 3,615 sq.yd. Enright St. $15,000; warrenite bitulithic paving, etc. 1,820 sq.yd. Bec St. $15,320, 41,125 sq.yd. West Pine St. $193,000; also shallow granite block paving, etc. 10,185 sq.yd. Washington Ave. between 4th and 11th Sts. $70,000, 11,645 sq.yd. Washington Ave. $75,000, and 10,670 sq.yd. Washington Ave. $68,000. W. W. Horner, 300 City Hall, engr.

Ark., Searcy—Apr. 4, by Comrs. Paving Dist. 9, c/o J. L. Younger, secy., grading, curbing, guttering and 6 in. concrete paving, etc., 11,500 sq.yd. various streets. Ford & McRea, 215 Gazette Bldg., Little Rock, engrs. Noted Mar. 24.

Tex., San Antonio — See "Contracts Awarded."

Okla., Newkirk—Apr. 4, by B. Schoonover, clk. Kay Co., grading, bridging, etc. 6 mi. Newkirk-Peckham Rd., 30 ft. $35,000. J. S. Clark, Newkirk, engr.

Washington—Apr. 12, by State Hy Comn., Olympia **(S.R. means State Road)**, grading, etc., 110,000 cu.yd. S.R. 10, Okanogan Co., 10,000 cu.yd. S.R. 2 Chelan Co, and 9,000 cu.yd. S.R. 7 Lincoln Co.; concrete paving, etc., 3 1 mi. S.R. 1 Snohomish Co., and 150 sq.yd. S.R. 7, Kittitas Co.; crushed

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rock surfacing, etc., 19,000 cu.yd. S.R. 5 Yakima Co; and four 60 ft. timber Howe trusses and three 62 ft. timber bridges, on S.R. 8, Yakima Co. J. W. Hoover, Olympia, highway engr.

Wash., Everett—Apr. 12, by Comrs. Snohomish Co., paving 3.1 mi. Marysville Cut-off Rd. from Everett to Marysville, 20 ft. $112,000. R. Alverson, Everett, engr.

California — Apr. 11, by State Hy. Comn., Sacramento, grading and concrete paving 0.6 mi., also grading and bituminous macadam paving 0.4 mi. road between San Juan Creek and Serra, Orange Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Chico—I. R. Morrison, city clk., taking bids curbing, walks and grading 426,978 sq.ft. streets under Resolution of Intention 1927-B; 5 in. concrete paving, etc., 155,271 sq.ft. streets under Resolution of Intention 1927-C, and 35,969 sq.ft. streets under Resolution of Intention 1927-A. R. H. Witt, city engr.

Calif., Corona—A. M. Hinkley, city clk., taking bids grading, curbing, walks and oil macadam paving, etc., portions 6th, 7th and 9th Sts., etc. To exceed $25,000. Currie Eng. Co., Stoneman Bldg., Alhambra, engrs. Noted Nov. 18.

Calif., Los Angeles—Bd. Pub. Wks. taking bids grading and 5 in. concrete paving, etc., 161,813 sq.ft. Planada and Garvanza Aves. To exceed $25,000. J. Shaw, city engr.

Calif., Los Angeles—Bd. Pub. Wks. taking new bids grading, curbing and 8 in. concrete paving 222,246 sq.ft. La Cienega Blvd. Former bids rejected. Noted Jan. 27.

Calif., Los Angeles—Apr. 11, by Supervs. Los Angeles Co., grading and 6- to 8-in. concrete paving 61,531 sq.ft., and 8 in. concrete paving 23,766 sq.ft. Wilmington Ave., Impvt. 644. G. W. Jones, Hall of Records, engr.

Calif., Modesto—Apr. 12, by C. Eastin, Jr., clk. Stanislaus Co., 4 in. concrete paving 115,000 sq.ft. roadway from Crows Landing Bridge to Southern Pacific R.R. tracks. J. H. Hoskins, Modesto, co. surv.

Calif., Santa Rosa—C. B. Reid, city clk. taking bids 5 in. concrete paving, etc. 102,843 sq.ft. Macdonald Ave. P. F. Green, city engr. Noted Mar. 24.

Calif., Stockton—Apr. 11, by E. Graham, clk. San Joaquin Co., grading, etc., 1,500 cu. yd. H. J. Keene Rd.

Ont., London—Apr. 8, by Middlesex Co., grading and macadam paving 58,728 sq.yd. of roads in Parkhill, Glencoe, Dorchester, Thorndale, Granton, etc. $175,000. C. Talbot, County Bldgs., engr. Noted Feb. 10.

Ont., Toronto — Apr. 5, by T. Foster, mayor, City Hall, concrete curbing Athletic Ave.; concrete sidewalks on Belsize Dr., Jedburgh, Sheldrake, Manor and Glenforest Rds., Athletic, Bedford Park, Castlefield, Harper, Duplex and Keewater Aves. $75,000. R. C. Harris, City Hall, engr.

Ont., Swastika—Apr. 4, by C. H. Fullerton engr. and deputy minister Northern Development Branch Parliament Bldgs., Toronto, grading, graveling, macadam paving 25 mi. Swastika-Ramore Rd., Temiskaming Dist., 16 to 20 ft.

Contracts Awarded

Mass., Williamstown—Rein.-con. paving 3,500 ft. various streets to D. F. McGrath, Adams. Engrs. est. $25,000.

Conn., Willimantic — Amiesite concrete paving 18,900 sq.yd. Main and Bridges Sts., to D. O'Connell Sons, Holyoke, at $4.60 per sq.yd., total $86,940. Engrs. est. $75,000. Noted Mar. 24.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Mar. 24, grading East 8th St., from F. Persicano, 300 Fulton St., $3,075; asphalt block resurfacing 3rd St., from Hastings Pavement Co., 25 Broad St., New York City, $11,711; asphalt paving Colonial Rd., and Prospect Park Southwest, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $8,310 and $77,548 respectively; East 10th St., from D. J. McCoy, Avenue U and East 57th St. $7,335, and 7th Ave., from Cranford Co., 52 9th St. $5,718. Noted Mar. 17.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., granite block paving 3rd Ave., to L. DiMinna, 2366 Lorrilard Pl., $255,249; sheet asphalt paving Crotona Ave., to Burnside Contg. Co., 270 Burnside Ave., $57,696, Selwyn Ave. and Purdy St., to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd. $24,957 and $18,073 respectively, Wallace Ave., to Asphalt Constr. Co., 208 Bway., $35,466, East 187th St., to Brusstar Constr. Corp., Harlem River and 150th St. $7,270, and Webster Ave., to Gaffney Constr. Corp., Storey and Hermany Sts. $92,391. Grand total $491,102. Noted Mar. 24.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt on concrete paving 58th St., to Sicilian Asphalt Paving Co., 41 Park Row, $18,463; and granite block paving Allen St., to W. J. Fitzgerald, Grand Central Terminal $184,035. Noted Mar. 17.

N. Y., Peekskill—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, grading and improving Bronx Parkway extension from end Peekskill Creek viaduct to Albany Post Rd., to D. J. McGrath, Peekskill, $70,090. Noted Mar. 3.

N. Y., Rye—W. H. Selzer, village clk., rein.-con. paving 0.3 mi. Highland Rd. from Apawamis Club north to Harrison line to Lux & Sidebottom, 26 Broad St., Port Chester, $27,430. Noted Mar. 10.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous concrete repaving Wood Ave., etc., to J. E. Donovan Co., 2207 Richmond Terrace, Port Richmond, $28,775. Noted Mar. 10.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete sidewalks on Amboy Rd., to F. J. Zarelli, 390 Carey Ave., Port Richmond, $4,651; and sewer in Neptune Ave., to Paulsen Constr. Co., Sutphin Blvd., Jamaica, $36,363. Noted Feb. 24.

N. J., Mount Rose—Bd. Freeholders Mercer Co. (Trenton), improving Rosedale-Mount Rose Rd., to Union Paving Co., 123 South 21st St., Phila., Pa., $80,940. Noted Mar. 17.

Pennsylvania—State Hy. Comn., Harrisburg, one course rein.-con. paving, etc., 34.369 mi. Project 245-A, Mercer Co., to Frisinger Co., Ann Arbor, Mich., $256,394; 3.92 mi. Project 246-A, Northampton Co., to W. Eisenberg, 5th and Market Sts., Camden, N. J., $134,799; and 2.11 mi. Project 247-A, Washington Co., to Hardy & Rankin Co., Murdock St., Cannonsburg, $91,622. Grand total $482,816. Noted Mar. 10.

Pa., Connellsville—City Council, grading, paving, sewers and erecting 500 ft. retaining wall on Arch St., to Bituminous Paving & Resurfacing Co., Connellsville, $85,635.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to R. B. Wenner, 2891 West Gordon St., grading Algard, Glenview and Magee Sts. $24,497, and Tabor St. $1,260, to Morrissey Bros., 4336 North Marshall St., Tabor St. $1,260, to J. Ciccone, 5732 Westminster St., Bartram, Botania, Dicks, Harley, Laycock, 79th and 80th Sts. $11,034, to Ballinger & Dougherty, 3741 Kensington St., Creston and Discher Sts. $4,070, Elsinore, I. J. Malta, Rand, Maywood and Palmetto Sts. $17,150, to T. V. Monaghan, Inc., Water and Clarkson Sts., Foulkrod and Garland Sts. $9,124, Princeton and Tyson Sts. $1,680, and 18th St. $3,957, to Curtis Bros., State and Unruh Rds., Godfrey, Lawndale, Vankirk and Weymouth Sts. $5,422, to Root Bros., Ridge Ave. and Righter St., Hermit, Magdalena and Maris Sts. $4,195; to Municipal Contg. Co., Washington Sq. Bldg., asphalt paving (assessment work), Balfour St. $4,490, Elmwood St. $36,514, N St. $20,253, Venango St. $26,895, 10th St. $27,123, improving Godfrey, Vankirk and Weymouth (country) Rds. $13,190, asphalt repaving Baltimore (shoulders) and Christian Sts. $29,305, Cedar St. $17,514, Clarion and Tree Sts. $8,796, Hutchinson and Percy Sts. $10,591, Locust and 38th Sts. $36,503, also paving and repaving Mantua and Parrish Sts. $10,442; to Barber Asphalt Co., 239 North 30th St., asphalt paving, etc., Colonial and 17th Sts. $13,072, D St. $17,568, Folsom St. $3,880, Leiper St. $6,603, Louden St. $9,603, Osage St. $7,807, Pike St. $14,859, Regent, 63rd and 69th Sts. $12,327 Sharpnack St. $5,262, Spencer St. $8,936, 20th St. and 72nd Ave. $8,619; to F. A. Caruso & Son, 804 South 12th St., improving City Rd. $46,715, and to M. Leewight, 424 Seville St., Pechin Rd. $3,987; to Union Paving Co., 128 South 21st St., asphalt repaving Naudain St. $2,129; to Acchione Contg. Co., 755 South Warnock St., redressed granite block repaving Alter, Dudley and Percy Sts. $8,687, and to Acchione & Caruso, 755 South Warnock St., 45th St. (track area) $5,815. Grand total $543,866. Noted Mar. 24.

O., Akron—W. F. Peters, dir. Pub. Serv. **(e.e. means engrs. est.)**, grading, curbing, guttering, walks and cindering 1,040 cu.yd. East Crosier St., to M. Kalain, 573 Wilson St., $14,342 e.e. $17,000, and 200 cu.yd. Elbon Ave., to J. W. Hurak, 617 Brown St., $1,784 e.e. $2,300; grading, curbing and 3½ in. vitr. brick paving, etc. 1,530 sq.yd. Jesse Ave., and 4,065 sq.yd. Chittenden St., to Hollinger & Davidson, 435 South Bway., $8,414 and $20,502 respectively e.e. $9,600 and $22,900 respectively; Trinidad asphalt paving, etc., 4,300 sq.yd. Stadelman Ave., to McCourt Constr. Co., 369 South Main St., $19,742 e.e. $23,500; brick paving, etc., 1,725 sq.yd. Laffer Ave., and 650 sq.yd. Shaker Dr., to Columbus Asphalt Paving Co., 309 Buckeye Bldg., $11,873 and $4,539 respectively e.e. $12,900 and $5,000 respectively. Grand total $82,196. Noted Mar. 10.

O., Cincinnati — Hamilton Co., grading and concrete repaving, etc. 4,921 sq.yd. Harding Ave., to A. P. Birnbaum, 3976 Lovell Ave., $30,431 engrs. est. $34,817; and 5,300 sq.yd. Prosperity Pl., to Grandison Constr. Co., 701 1st Natl. Bank, $23,926. Engrs. est. $27,684. Noted Feb. 24.

O., Cleveland—Grading, curbing, and paving with **(a)** brick **(b)** asphalt **(c)** concrete **(1)** Benwood Ave. **(2)** Edgewood Ave. **(3)** Ely Ave. **(4)** East 103rd St. **(5)** East 106th St. **(6)** East 111th St. **(7)** East 143rd St. **(8)** Conover Court **(9)** Caldwell Ave. **(10)** Hirst Ave. **(11)** West 132nd St. **(12)** West 133rd St. **(13)** West 135th St. **(14)** West 146th St. **(15)** West 145th St. **(16)** West 157th St. **(17)** Biddulph Rd. **(18)** Burger Ave. **(19)** Spokane Ave. **(20)** Stickney Ave. **(21)** Tate Ave. **(22)** West 50th St. **(23)** Crumb Ave. **(24)** Glen Ave. **(25)** Skyrm Court **(26)** Bader Ave. **(27)** Geraldine Ave. **(28)** Glenville Ave. **(29)** Greenwich Ave. **(30)** Kinkelaar Ave. **(31)** Klonowski Ave. **(32)** East 18th St. **(33)** East 76th St. **(34)** East 94th St. **(35)** East 122nd St. **(36)** East 170th St. **(37)** East 172nd St. **(38)** West 23rd St. **(39)** West 107th St. **(40)** West 129th St., to Cleveland Trinidad Paving Co., The Arcade **(b1)** $18,992 **(b2)** $37,140 **(a3)** $10,669 **(b4)** $8,561 **(b5)** $9,255 **(b6)** $16,844 **(b7)** $22,603; to Roehl Bros. Paving & Constr. Co., 7002 Denison Ave. **(c8)** $2,129 **(b9)** $4,169 **(b10)** $36,346 **(b11)** $43,645 **(b12)** $40,323 **(a13)** $7,079 **(b14)** $21,907 **(b15)** $15,541 **(a16)** $29,830; to Baldwin Bros., 4500 Euclid Ave. **(b17)** $33,333 **(b18)** $31,430 **(b19)** $8,476 **(b20)** $35,371 **(b21)** $6,138 **(b22)** $8,863; to H. G. Herring, Wayside Rd. **(b23)** $3,125; to Gould & Maybach, 16311 Saranec Rd. **(b24)** $2,277; to Enterprise Paving & Constr. Co., 8444 Bway. **(b25)** $2,307; to Highway Constr. Co., Guarantee Title Bldg., **(b26)** $24,839 **(b27)** $5,444 **(b28)** $6,803 **(b29)** $18,434 **(b30)** $5,943 **(b31)** $6,010 **(b32)** $8,861 **(b33)** $4,412 **(b34)** $9,092 **(b35)** $19,855 **(b36)** $24,267 **(b37)** $22,373 **(b38)** $8,685 **(b39)** $15,396 **(b40)** $15,359. Grand total $652,126. Noted Feb. 17.

Ind., Monticello—Comrs. White Co. **(e.e. means engrs. est.)**, to A. Holloway, Monticello, constructing W. Shumaker Rd. $18,281 e.e. $18,668, Bertha M. Ogden Rd. $8,900 e.e. $9,453, and Frank Howard Rd. $8,281 e.e. $8,415. Grand total $35,462. Noted Feb. 24.

Mich., Grand Rapids—Kent Co., 2 course graveling 3.957 mi. Oakfield-Lincoln Lake Rd., 16 ft., to O. D. Hammond, Charlevoix, $30,335. Noted Mar. 10.

Wisconsin—State Hy Comn., H. W. Vroman, div. engr., Div. Office 2, Stephenson Bldg., Milwaukee, grading and concrete paving, etc., 19,647 sq.yd. Federal Aid Project 349-D, Milwaukee Co., to Lex Constr. Co., 446 68th Ave., Milwaukee, $61,772; and 80,022 sq.yd. Federal Aid Project 493-A, Racine Co., to L. L. Tindall Co., Waterford, $178,146. Noted Mar. 10.

South Dakota—State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project and S. P. State Project)**, to Tobin & Maloney, Madison, graveling, etc., 13,123 cu.yd. S. P. 40 and F. A. P. 70, Custer Co. $11,794, 15,369 cu.yd. F. A. P. 185-A, Jones Co. $14,170, 15,826 cu.yd. F. A. P. 198-A. Brown Co. $20,040, 7,410 cu.yd. F. A. P. 185-E $24,040, and 15,317 cu.yd. F. A. P. 185-C $13,517, both Lyman Co., to G. W. England & Son, Murdo, 11,684 cu.yd. F. A. P. 215-C, Stanley Co. $34,870, and 57,059 cu.yd. F. A. P. 215-D, Haakon Co. $19,353, to England & England, Murdo, 100,084 cu.yd. F. A. P. 162-D, Jackson and Haakon Counties $25,631, and to Dowd Bros. & Noonan Hyde Co., Watertown, 82,063 cu.yd. F. A. P. 194-D, Buffalo Co. $24,681; to Northwestern Eng. Co., Kadoka, 138,216 cu.yd. F. A. P. 215-A, $48,331, 92,029 cu.yd. F. A. P. 215-B $38,076, and constructing 60 ft. and 36 ft. span bridge on F. A. P. 215-A $11,885, all Stanley Co.; and to W. Bonesteel, Wagner, 36 ft. viaduct on F. A. P. 215-B $5,452, and two 30 ft., one 32 ft., 52 ft. and 56 ft. span bridges on F. A. P. 215-C $20,422, both Stanley Co. Grand total $333,626. Noted Mar. 24.

Tex., San Antonio—City will pave and widen 2 blocks Nueva St. from South Alamo to Garden Sts., 60 ft., by own forces. $100,000. I. Ewig, city engr. Property owners will pay ⅓ of cost.

Okla., Sentinel—Grading, curbing, 6 in. concrete paving, etc., 21,000 sq.yd. Main St., etc., to Connally Bros., El Reno. $82,357. Noted Jan. 6.

Wash., Olympia—See "Unclassified."

Oregon — State Hy. Comn., Salem, crushed rock surfacing 8.957 mi. Project

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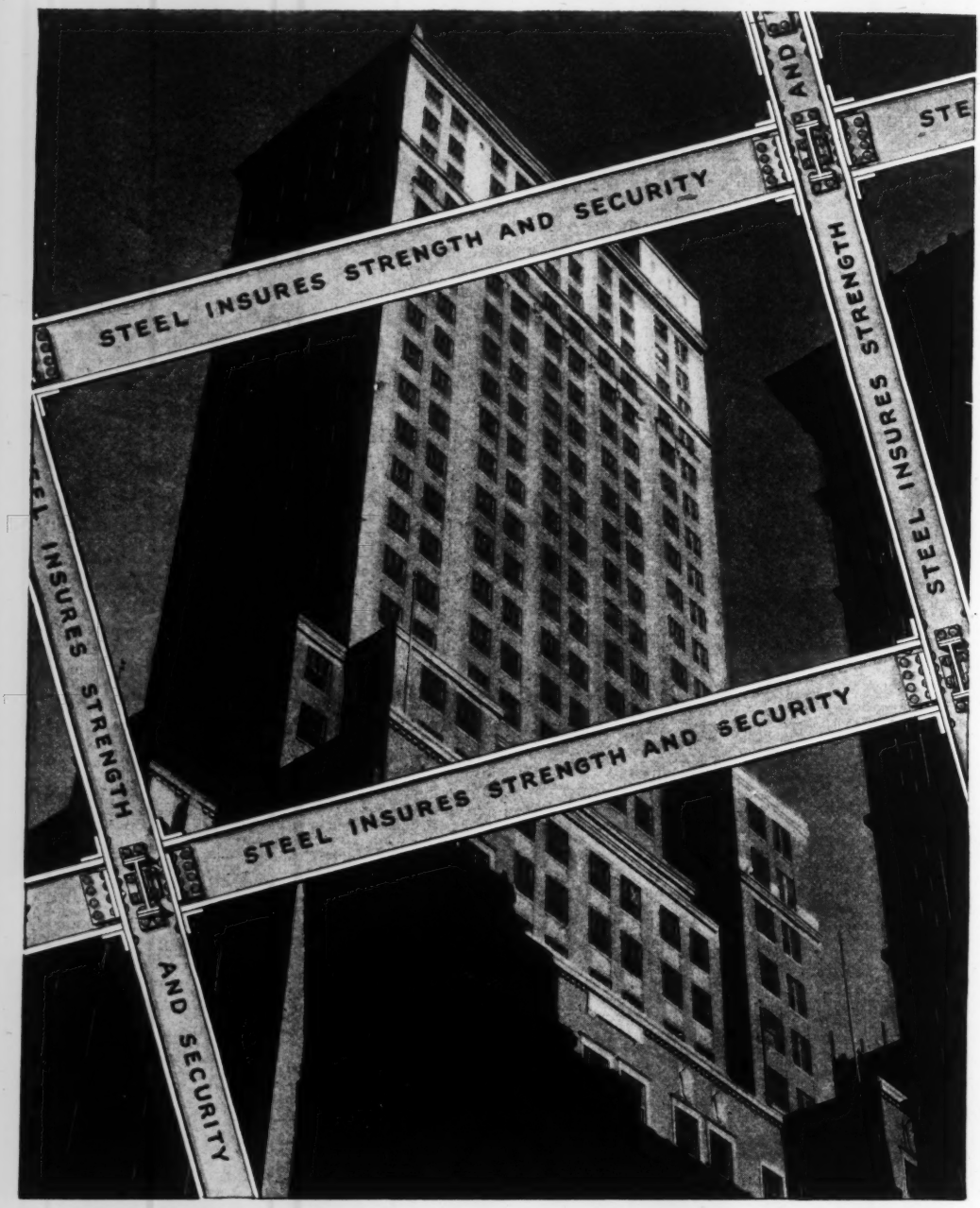
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Streets and Roads (Continued)

110-C, Lincoln Co., to Greenwood & Dann, 500 North Front St, Portland, $60,595.

Calif., Glendale—Trustees, curbing, etc. Paula and Davis Aves., etc., to J. W. Henderson, 267 Hill Dr., $34,604. Noted Mar. 24.

Buildings—Commercial

Proposed Work

Me., Portland—THEATRE, STORE and OFFICE—M. Greenspan, 333 Washington St., Boston, Mass., plans brick and steel, Congress St., here. To exceed $150,000. Engineer and architect not selected.

N. H. Plymouth—DORMITORY—State of New Hampshire, E. L. Silver, State House, Concord, plans dormitory, here. $200,000. Engineer and architect not selected.

N. H. Warren—SANATORIUM—State of New Hampshire, R. M. Demming, supt, State Sanatorium, Glencliff, plans sanatorium, here. $150,000. Engineer and architect not selected.

Mass., Athol—HOSPITAL—City, C. H. Cooke, chn. com., plans 2 or 3 or more story hospital. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—BANK—Federal Natl. Bank of Boston, Washington and Water Sts., having preliminary plans prepared by J. H. Driscoll, 6 Beacon St., altering and constructing 6 story and basement, brick addition, Washington St. $150,000 or more.

Mass., Canton—BANK—Canton Institutions for Savings, c/o J. W. Beal & Sons Co., archts., 185 Devonshire St., Boston, plans 1 story and basement, rein.-con., brick and steel, plain foundation, here. $150,000.

Mass., Chicoppee—THEATRE—Goldstein Bros., Bway, Theatre, Springfield, having plans prepared by Blackall, Clapp & Whittemore, 31 West St., Boston, 3 story and basement, rein.-con., brick and steel, plain foundation, Spring St., here. To exceed $150,000.

Mass., Gardner—THEATRE—G. A. Giles Co., c/o R. L. Ripley, 689 Massachusetts Ave., plans altering and constructing 1 and 2 story and basement, brick and steel addition to Parler St. $150,000. Engineer and architect not selected.

Mass., Norwood—MUNICIPAL—Town, F. J. Foley, chn., soon lets contract 2 story and basement, brick and steel, Washington, Nahatan and Market Sts. $280,000. W. G. Upham, Bigelow Bldg., archt. Noted Mar. 17.

Mass., Revere — THEATRE — Universal Realty Trust, S. Hemburger, pres., Park Sq. Bldg., Boston, having plans prepared by J. A. Tuck, Park Sq. Bldg., Boston, 2 story and basement, brick and steel, plain foundation, Shirley Ave. and Walnut St. $150,000.

Mass., Roxbury (Boston P. O.)—HOME—Home for Aged Couples, H. Clark, pres., 2055 Columbus Ave., takes bids after Apr. 1, 3 story and basement, brick and limestone, Columbus and Walnut Aves. $150,000. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, archts.

Mass., Salem—THEATRE—J. H. Bickford Co., archts., 6 Beacon St., Boston, preparing plans brick and steel theatre. $750,000. Owner's name withheld.

Mass., Taunton — HOTEL — Community Hotel, c/o Chamber of Commerce, F. L. Larkin, secy., plans hotel, Main St. $150,000 or more. Engineer and architect not selected.

R. I., Central Falls — THEATRE and STORE—Community Theatre, M. Kaufer, pres., Howard Bldg., Providence, plans theatre and store building, here. $150,000 or more. Engineer and architect not selected.

R. I., Providence—BANK and OFFICE—Union Trust Co., W. F. Farrell, pres., having plans prepared by G. F. Hall, 807 Union Trust Bldg., 12 story, 30 x 48 ft., brick and steel addition, Westminster and Dorrance Sts. To exceed $150,000.

Conn., Hartford — DORMITORY — Y. W. C. A., G. Graves, chn., takes bids in April, 4 story, 125 x 150 ft., brick and steel, Broad St. $250,000. Smith & Bassette, 36 Pearl St., archts.

N. Y., Marcy—HOSPITAL—Dept. Mental Hygiene, Capitol, Albany, takes bids in May, additions to Utica State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. Y., New York—SALES and SERVICE—White Motor Co., H. R. Hadley, constr. engr., 842 East 79th St., Cleveland, O., soon lets contract 3 story and basement, rein.-con. and brick here. $200,000. Hughes & Conrad, Union Mortgage Bldg., Cleveland, O., archts. Noted Feb. 10.

N. Y., Ogdensburg—STAFF ACCOMMODATIONS, etc. — Dept. Mental Hygiene, Capitol, Albany, takes bids in April, staff accommodations and reception hospital, at St. Lawrence State Hospital, here. J. W. Jones, Capitol, Albany, state archt. Noted Dec. 30.

N. Y., Rochester — HOSPITAL — Dept. Mental Hygiene, Capitol, Albany, takes bids in May, new accommodations replacing Monroe Group, and constructing Lakeside Dormitory, at Rochester State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. Y., Rome—DORMITORY, etc.—Dept. Mental Hygiene, Capitol, Albany, takes bids in April, new Dormitory Building "R," underground connections, laundry addition, etc., at State School for Mental Defectives, here. S. W. Jones, Capitol, Albany, state archt. Noted Dec. 30.

N. Y., Sonyea — ACCOMMODATIONS, etc.—Dept. Mental Hygiene, Capitol, Albany, takes bids in April, additional accommodations and replacing existing heating mains at Craig Colony, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. Y., Thiells—DORMITORIES, etc.—Dept. Mental Hygiene, Capitol, Albany, takes bids in April, adult male dormitories, attendants home and service building, also completing laundry and storehouse, at Letchworth Village, here. S. W. Jones, Capitol, Albany, archt. Noted Feb. 10.

N. Y., Wassaic—INSTITUTION—Dept. Mental Hygiene, Capitol, Albany, takes bids in May 40 new buildings for Wassaic State School for Mental Defectives, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. Y., Wingdale — STAFF ACCOMMODATIONS—Dept. Mental Hygiene, Capitol, Albany, takes bids in April staff accommodations at Harlem Valley State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. J., East Orange — APARTMENT — Kuskin & Rothberg, Inc., 24 Branford Pl., Newark, having plans prepared by R. Bottelli, 207 Market St., Newark, 4 story, 120 x 150 ft., brick and steel, plain foundation, Prospect St. $275,000.

N. J., Egg Harbor City—MAUSOLEUM, etc.—Laurel Park Development Co., c/o W. L. Charr, archt., Victory Bldg., Phila., Pa., having plans prepared 1 story and basement, 100 x 250 ft., limestone and steel mausoleum, water and observation tower, here. $1,500,000.

N. J., Elizabeth—HOTEL—Albert Leon & Son, 95 Smith St., Perth Amboy, soon takes bids 7 story, 87 x 200 ft., brick and steel, plain foundation, East Jersey St., here. $1,000,000. H. O. Hamilton, 342 Madison Ave., New York City, archt.

N. J., Hackensack — APARTMENT — Bartholdi Realty Co., c/o Flagg & Stades, archts., 665 Newark Ave., Jersey City, having plans prepared 5 story, brick and timber, plain foundation, Prospect Ave. $400,000.

N. J., Irvington (br. Newark)—APARTMENT—Ellis Realty Co., c/o Kasoff, archt., 164 Market St., Newark, having plans prepared 5 story, 90 x 130 ft., brick and timber, plain foundation, Springfield Ave. $200,000.

N. J., Morristown — APARTMENT — A. Yekrkeelowitz, c/o R. Bottelli, archt., 207 Market St., Newark, takes bids about Apr. 1, 5 story, 122 x 250 ft., brick, and timber, plain foundation, South and James Sts. $250,000. Noted Mar. 17.

N. J., Oak Ridge — APARTMENT — L. Mahlieu, 315 Sip Ave., Jersey City, having plans prepared by Garrabrandt & Zumbusch, 336 Main St., East Orange, eight 2½ story and basement, 28 x 34 ft. apartments, Mitchel Pl., here. $160,000.

N. J., Orange—APARTMENT—M. Welitsky, 361 Osborne Terrace, Newark, having plans prepared by R. Bottelli, 207 Market St., Newark, 4 story, brick and timber, plain foundation, 61 Cleveland St., here. $150,000.

N. J., Union—EXCHANGE—New York Telephone Co., 15 Dey St., New York City, having plans prepared by McKenzie, Voorhees & Walker, 342 Madison Ave., New York City, 2 story, 100 x 150 ft., brick and steel, plain foundation, Stuyvesant Ave., here. $150,000.

N. J., West Englewood—APARTMENTS—Pejac Corp., 58 Court St., Brooklyn, N. Y., having sketches made 5 story, brick and timber, plain foundation, Teaneck Rd., here. $500,000. J. L. Tillack, 173 Main St., Hackensack, archt.

N. J., West New York—CLUB HOUSE—Knights of Columbus, c/o F. J. Ricker, archt., 685 Hudson Ave., having plans prepared 3 story, brick and timber, plain foundation. $150,000.

Pa., Abington — HOSPITAL — Abington Memorial, P. C. Madeira, ch. executive com., Broad and Spruce Sts., Phila., plans hospital addition. $1,500,000. Engineer and architect not selected.

Pa., Phila. — APARTMENT — S. Nasif 3725 Old York Rd., soon lets contract 4 story and basement, 35 x 40 ft., and 31 x 121 ft., brick and steel, plain foundation, 15th and Jefferson Sts. J. Margolis, Fuller Bldg., archt. Noted Mar. 17.

Pa., Phila.—BANKING HOUSE—E. W. Clark Co., 321 Chestnut St., having plans prepared by Zantzinger, Berle & Medary, Otis Bldg., 40 x 90 ft. banking house, 16th and Locust Sts.

Pa., Phila.—OFFICE and STORE—M. A. Bernhardt, archt., 127 South 18th St., soon lets contract 6 story and basement, 30 x 63 ft., rein.-con., brick and steel, plain foundation, 260 South 15th St., for S. Haltz, c/o architect.

Md., Baltimore — APARTMENT — F. A. Fletcher, archt., 13 West Franklin St., soon lets contract 4 story and basement, 60 x 86 ft., brick and steel, University Parkway and 40th St., for Rugby Hall Apartments, c/o H. W. Webb, 516 North Charles St. $150,000.

W. Va., Clarksburg—FIRE STATION—See "Streets and Roads."

Ala., Montgomery — HOTEL — Capital City Hotel Co. plans 11 story and basement, brick and rein.-con. hotel. $1,000,000. Engineer and architect not selected.

O., Cleveland—HOSPITAL—Evangelical Deaconess Hospital, A. A. Kitterer, supt., 4229 West 25th St., having sketches made by A. E. Skeel, 5005 Euclid Ave., 3 story and basement, brick, steel and concrete, 4229 West 25th St. $300,000. Noted Feb. 10.

O., Cleveland—MEDICAL—J. Laronage Co., Union Trust Bldg., having preliminary plans prepared by J. F. Steffens, Fidelity Mortgage Bldg., 5 story and basement, 80 x 150 ft., brick, steel and concrete, Euclid Ave. $250,000.

O., Dayton—HOTEL—Van Cleve Hotel Co. having plans prepared by Frank Hill Smith & Co., Winters Bank Bldg., and soon takes bids 12 story and basement, brick, steel and concrete, 1st and Ludlow Sts. $1,000,000.

O., Ravenna—THEATRE—South Chestnut Co. soon takes bids 3 story and basement theatre, South Chestnut St. $150,000.

Mich., Detroit—HOSPITAL—Twentieth Century Club, I. Hurst, pres., 62 East Columbia St., having plans prepared 9 story and basement, 450 room, rein.-con., brick and steel, plain foundation, known as "Peoples Hospital." $3,000,000. Engineer and architect's names withheld.

Mich., Flint — HOTEL — C. N. Agree, archt., 1140 Book Tower Bldg., Detroit, soon lets contract 6 story and basement, 200 room, rein.-con., brick and steel, plain foundation, Detroit St. and 3rd Ave., for Frankay Corp. of Flint. Noted Mar. 10.

Ill., Chicago — APARTMENT HOTEL — W. Bernhardt & Co., archts., 820 Tower Court, soon takes bids 12 story and basement, 50 x 150 ft., rein.-con. and brick, 6151 Winthrop Ave., for Syndicate, c/o E. F. Techmer, 2441 Sunnyside Ave. $1,081,000.

Ill., Chicago—THEATRE, STORE and APARTMENT—J. H. Marlowe & J. Horwitz, 10 South La Salle St., had plans prepared by G. E. McClellan, 7441 Cottage Grove Ave., 3 story and basement, 123 x 223 ft., rein.-con., brick and terra cotta, Eggleston Ave. and 119th St. $600,000.

Ill., East St. Louis — COMMERCIAL — E. E. Miller, c/o Bowman & Miller Real Estate Co., Bway. and Main St., having preliminary plans prepared 3 to 6 story and basement. ren.-con. and brick, Collinsville and Missouri Sts.

Ill., Waukegon—HOTEL and STORE—Hi Way Hotel Co. having plans prepared by B. K. Gibson, 624 South Michigan Ave., Chicago, 9 story and basement, 74 x 100 ft., rein.-con., brick and terra cotta, Washington and Utica Sts. $500,000.

Mo., Kansas City—APARTMENT—Ward Investment Co., 812 Pioneer Trust Bldg., having preliminary sketches made by Lucke & Lucke, Orear Leslie Bldg., rein.-con., brick and steel, 51st St. and Wornall Rd. $1,000,000.

Mo., St. Charles—HOTEL—St. Charles Hotel Co. takes bids about Apr. 4, 4 story and basement, 70 x 115 ft., rein.-con., brick and terra cotta, 2nd and Washington Sts. $150,000. Manske & Bartling, 410 North Euclid Ave., St. Louis, archts.

Mo., St. Louis—APARTMENT—Housam Realty Co., International Life Bldg., having preliminary sketches made by Howard &

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Buildings—Commercial (Continued)

Finley, 1104 International Life Bldg., 8 story and basement, 50 x 120 ft., rein.-con. and brick, concrete foundation, 5100 Waterman St. $200,000 up.

Mo., St. Louis—CIVIL COURTS—Bd. Pub. Serv., 208 City Hall, takes bids about Apr. 15, walls and exterior for 24 story and basement, 135 x 162 ft., concrete, stone, terra, and steel, 11th, Chestnut and Market Sts. Archts. total est. $4,000,000. Plaza Comn., Inc., c/o owner, archts. and engrs. Noted Sept. 16.

Tex., Corpus Christi — HOTEL — J. E. Poulos & Bro. and Mecca Cafe, 118 East Houston St., San Antonio, take bids about Apr. 9, 4 story and basement, rein.-con. and brick, plain foundation, here. $300,000. H. T. Phelps, c/o Hicks Bldg., San Antonio, archt. Noted Mar. 10.

Tex., Dallas — MEDICAL — Carey-Schneider Investment Co., Medical Arts Bldg., had plans prepared by H. M. Greene & Co., archts. and engrs., Santa Fe Bldg., and takes bids after Apr. 1, 15 story, 49 x 125 ft., rein.-con. top addition, Pacific St. $1,000,000. Noted Sept. 30.

Tex., Dallas—TERMINAL and OFFICE —See "Unclassified."

Tex., San Antonio—CITY HALL—City, c/o J. W. Tobin, mayor, having revised plans prepared by Adams & Adams, c/o Builders Exch. Bldg., 1 story, addition. $250,000. Former bids rejected. Noted Feb. 24.

Okla., Oklahoma City—OFFICE—Oklahoma Gas & Electric Co., Insurance Bldg., takes bids about Apr. 1, 7 story and basement, 75 x 140 ft., rein.-con. and brick, plain foundation, 3rd St. $400,000. Layton, Hicks & Forsythe, Braniff Bldg., archts. Noted Nov. 25.

Ore., Portland—HOTEL—Portland Paramount Co., 5th and Salmon Sts., takes bids about Apr. 1, 10 story, 100 x 200 ft., rein.-con., 6th, Salmon and Main Sts. To exceed $500,000. De Young & Roald, Spalding Bldg., archts.

Calif., Los Angeles — OFFICE and STORE — E. L. Mayberry, archt., Transportation Bldg., soon takes bids 13 story and basement, 65 x 160 ft., brick and terra cotta, 1st St. and Bway., for R. B. MacIntosh, 3827 Hyans St.

Calif., Oakland — STORE — Emporium, Market St. opposite Powell St., San Francisco, and Capwell Co., purchased site and plan department store, on block bounded by 19th and 20th Sts., Bway and Telegraph Aves. To exceed $1,000,000.

Calif., Oakland — THEATRE — M. I. Diggs, archt., 1625 Bway., takes bids about May 1, concrete and steel, 4,000 seating capacity, Telegraph Ave., for Central Oakland Block, Inc., c/o architect. $1,000,000.

Que., Montreal — HOSPITAL and NURSES HOME—Notre Dame Hospital, Sherbrooke St., A. Harwood, chn. Bd. Governors, soon takes bids hospital addition and nurses home. $1,250,000.

Que., Rouyn — HOTEL — L. Robitaille, archt., 203 St. John St., Quebec City, soon takes bids modern hotel, here, for Chateau Rouyn Co. Ltd. $150,000.

Ont., Ottawa—GOVERNMENT DEPARTMENT BUILDINGS—Secretary Dept. Pub. Wks., soon takes bids (1st unit) of 7 new Dominion Govt. Dept. Buildings. $500,000. Total $15,000,000. T. W. Fuller, Dept. Pub. Wks., 399 MacLaren St., engr.

Bids Desired

Me., Bingham—BANK—Augusta Trust Co., G. E. Macomber, pres., taking bids 1 story and basement, rein.-con., brick and steel, plain foundation. $150,000. J. C. and J. H. Stevens, 477 Congress St., Portland, archts.

Mass., Boston—MEDICAL—See "Contracts Awarded."

Mass., Brookline — APARTMENT — See "Contracts Awarded."

Mass., Chicopee—THEATRE and OFFICE—Wernick Bros., 108 Main St., taking bids 2 story 65 x 150 ft., brick and steel, Bway. $150,000. G. Alderman & Con., 315 High St., Holyoke, archts. Noted Mar. 24.

Mass., Haverhill—CITY HALL—Apr. 4, by City, Pub. Building Dept., 3 story, 35 x 100 ft., brick and steel, Lincoln St. $200,000. J. A. Perkins, 45 North Ave., archt.

N. Y., Syracuse — APARTMENT — See "Contracts Awarded."

N. Y., Orangeburg — HOSPITAL — Apr. 20, by Dept. Mental Hygiene, Capitol, Albany, 25 buildings for proposed Rockland State Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Mar. 31. Noted Feb. 10.

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N. J., East Orange—APARTMENT—See "Contracts Awarded."

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—GARAGE—Apr. 4, by L. B. Rothschild, archt., 215 South Broad St., 8 story and basement, 60 x 77 ft., rein.-con., brick and steel, plain foundation, 1602 Chancellor St., for I. Sley, c/o architect. $190,000.

Pa., Pottstown—OFFICE—See "Buildings—Industrial."

Pa., Roxborough (Phila. P. O.)—HOSPITAL—Apr. 4, by F. R. Watson, archt., 1520 Locust St., Phila., 4 story and basement, 42 x 98 ft., rein.-con., brick and steel addition, here, for Memorial Hospital, Ridge and Rector Sts. $200,000.

O., Berea—BANK and OFFICE—Apr. 1, by J. W. Bagley, archt., 1706 Euclid Ave., Cleveland, 5 story and basement, 50 x 65 ft., brick, steel, steel joist and concrete bank and office building, here, for Commercial Bank, c/o architect. Noted Mar. 24.

O., Columbus—COURT HOUSE—Apr. 16, by O. Moore, clk. Franklin Co., remodeling 3 story and basement, stone, South High St. $200,000. W. H. Tremaine, Chamber of Commerce Bldg., archt. Noted Nov. 11.

O., Columbus—HOME—Apr. 23, by O. Moore, clk., Franklin Co., 2 story and basement, 50 x 150 ft., brick and concrete home addition. $200,000. W. H. Tremaine, Chamber of Commerce Bldg., archt. Former bids rejected. Noted Feb. 17.

Ind., Anderson—APARTMENT—Apr. 4, by E. R. Watkins, archt., 3 story, 140 x 140 ft., rein.-con., 11th and Central Sts., for Beverly Terrace Co. $250,000.

Ind., Elkhart—Y. M. C. A. taking bids brick and steel building. $150,000. Zimmerman & Saxe, 212 East Superior St., Chicago, Ill., archts.

Mo., Kansas City—APARTMENT—See "Contracts Awarded."

Mo., Kansas City — APARTMENT HOTEL—See "Contracts Awarded."

Mo., Normandy — CLUB HOUSE — See "Contracts Awarded."

Mo., St. Louis—OFFICE—Apr. 4, by E. M. Tucker, archt., 1164 Railway Exch. Bldg., and Mauran, Russell & Crowell, Consult. archts., Chemical Bldg., general contract, etc., 22 story, 40 ft. tower and basement, 100 x 293 ft., rein.-con., brick, steel and granite, 13th St. from Pine to Olive Sts., for Missouri Pacific R.R. Co., Railway Exch. Bldg. Archts. total est. $2,000,000. E. A. Hadley, c/o owner, ch. engr. Noted Mar. 24.

Tex., San Antonio—APARTMENT HOTEL, etc.—See "Contracts Awarded."

Okla., Tulsa — OFFICE — McBirney Investment Co., c/o E. W. Siffle, archt., 407 Natl. Bank Bldg., taking bids general contract 10 story and basement, brick, steel, stone and terra cotta office building. $450,000. H. Von Unwerth, 705 Finance Bldg., Kansas City, Mo., structural engr. This corrects report in Mar. 24 issue.

Calif., Glendale — APARTMENT — See "Contracts Awarded."

Calif., Los Angeles—STORE and LOFT—Morgan, Walls & Clements, archts., Van Nuys Bldg., taking bids part 2 and 3 story, 150 x 155 ft., rein.-con. and brick, Oxford and Wilshire Blvds., for Sun Realty Co., c/o architects. Noted Feb. 10.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—MEDICAL—Owner, c/o J. J. Cullen, archt., 29 Newbury St., will alter and construct 6 story and basement, 85 x 105 ft., brick, plain foundation, 362 Commonwealth Ave., by day labor under supervision architect. $150,000.

Mass., Boston—STORE and OFFICE—Doll & Richards, 71 Newbury St., Boston, altering and constructing 4 story and basement, brick and limestone addition, plain foundation, 138 Newbury St., to Parkhurst Building Co., 583 Atlantic Ave. Archts. est. $150,000. Noted Mar. 17.

Mass., Brookline—APARTMENT—Rosen & Lavine, 333 Washington St., Boston, will build 3 story and basement, brick and stone, plain foundation, Alton Pl., here. $150,000. Work will be done separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., North Attleboro—TEMPLE—Bristol Lodge of Masons, J. L. Thompson, 107 High St., 2 story and basement, brick and stone, plain foundation, South Washington St., to J. A. Munroe, 155 Washington St. Archts. est. to exceed $150,000. Noted Mar. 3.

N. Y., Syracuse—APARTMENT—Olsen & Agronin, c/o S. D. Sarason, engr., Dillage Bldg., will build 3 story and basement, brick and steel, plain foundation, Hawley and Green Sts., by day labor. $250,000.

N. J., East Orange—APARTMENT—Criterion Constr. Co., 128 Market St., Newark, will build 4 story, brick and timber, plain foundation, South Munn Ave., here. $150,000. Work will be done by separate contracts. H. F. Clark, 13 Central Ave., Newark, archt.

N. J., Newark—APARTMENT—B. Rogovin & Gurewitz, 75 Farley Ave., will build 4 story, brick and timber, plain foundation, 585 Mount Prospect Ave. $150,000. Work will be done by separate contracts.

N. J., Newark—BANK—Equitable Trust Co., Fleming Ave. and Chapel St., general contract 1½ story, 42 x 86 ft., rein.-con., brick and steel, plain foundation, Fleming Ave. and Chapel St., to D. W. McGee, 142 1st St., $124,000.

N. J., Plainfield — AUTO SALES and GARAGE—Treglown Building Corp., 423 Park Ave., general contract 3 story, 126 x 150 ft., rein.-con., brick and steel, plain foundation, 140 East 5th St., to James Baird Co., 441 Lexington Ave., New York City. Archts. est. $250,000.

N. J., Weehawken—HOSPITAL—North Hudson Hospital, Park Ave., general contract 3 story, brick, steel and rein.-con. addition, plain foundation, to H. T. Auf der Heide, 443 16th St., West New York. $117,000.

Pa., Phila.—APARTMENT—Owner, c/o H. J. Carroll, archt., 1619 Chestnut St., 4 story and basement, 35 x 106 ft., brick and steel, plain foundation, 42nd and Ludlow Sts., to A. Berman, 635 Tree St. Noted Mar. 10.

Pa., Phila. — APARTMENT — Locust Constr. Co., 6th and Locust Sts., will build 4 story and basement, 44 x 162 ft., rein.-con., brick and steel, plain foundation, 508 Pine St. Work will be done by separate contracts. W. L. Charr, Victory Bldg., archt.

Pa., Phila.—WAREHOUSE—Markowitz Bros., 325-29 Market St., 6 story and basement, 40 x 60 ft., rien.-con., brick and steel, plain foundation, to W. Linker Co., 725 Cherry St.

Pa., Scranton—MASONIC TEMPLE—R. M. Hood, archt., 40 West 40th St., New York City, N. Y., 6 story and basement, 125 x 200 ft., rein.-con., brick, stone and steel, plain foundation, Washington Ave., here, to Central Constr. Corp., 7th and Boas Sts., Harrisburg, for Scottish Rite Masonic Temple & Cathedral. Noted Dec. 9.

Pa., Upper Darby (mail Phila.) — APARTMENT — D. Magen, 5429 Montgomery St., Phila., 4 story and basement, 116 x 276 x 357 ft., brick and steel, plain foundation, Walnut and Shelbourne Sts., here, to H. Platt, 5014 Spruce St., Phila. Archts. est. $500,000.

Md., Baltimore — APARTMENT — Marvern Apartment Corp., 3 story and basement, 52 x 152 ft., brick and steel, Charles St. above 33rd St., to M. A. Long Co., 10 West Chase St. $175,000.

O., Cleveland — STORE, OFFICE and APARTMENT—Corporation, c/o I. Miller of Miller Becker Co., 6411 Central Ave., 2 story and basement, 127 x 140 ft., brick, steel and concrete, East 152nd St. and McAuley Ave., to Narosny & Goffman, 476 East 112th St. Archts. est. $250,000.

O., Columbus—OFFICE—J. E. Outcalt, archt., 415 East Broad St., 4 story and basement, 75 x 175 ft., brick, stone and concrete, North High St., to R. L. Wirtz, 88 North Front St., for Medical Science Building Co., 3rd and Pearl Sts. Approximately $300,000. Noted Dec. 30.

O., Kent—COMMERCIAL and THEATRE—Kent Impvt. Co., c/o S. S. Rosenthal, Ulmer Bldg., Cleveland, 2 story and basement, brick and steel, here, to Super-Built Constr. Co., 1836 Euclid Ave. Archts. est. $150,000.

Ind., Indianapolis—APARTMENT—H. J. Hibben, 141 South Meridian St., general contract rein.-con., brick and steel, East Washington St. and Emerson Ave., to C. T. Caldwell, 622 Peoples Bank Bldg. Archts. est. $250,000. Noted Apr. 15.

Mich., Royal Oak—APARTMENT—N. A. Starr (owner and contractor), will build 4 story and basement, 60 x 110 ft., rein.-con. and brick, plain foundation, 6th St. Archts. est. $150,000.

Ill., Chicago—BANK and OFFICE—City State Bank, 130 North Wells St., general contract 23 story and basement, 80 x 80 ft., rein.-con., steel, stone and terra cotta, 126-28 North Wells St., to Lanquist Constr. Co., 1100 North Clark St. Former contract rescinded. Archts. est. $5,000,000.

Ill., Chicago—EXCHANGE and OFFICE—A. S. Alschuler, archt., 28 East Jackson Blvd., masonry and carpentry contract 17 story and basement, 100 x 180 ft., rein.-con., brick and stone, Washington and

Buildings—Commercial (Continued)

Franklin Sts., to Paschen Bros., 111 West Washington St., for Chicago Mercantile Exch., 136 West Lake St. Archts. est. $3,500,000. Noted Jan. 6.

Ill., Chicago — THEATRE, etc. — South Center Amusement & Business Enterprise, c/o Levy & Klein, archts., 111 West Washington St., masonry contract 3 story, rein.-con. and brick, 47th St. and South Parkway, to J. Shedden Co., 106 North La Salle St.; ventilating, to Ideal Heating Co., 6316 Wentworth Ave.; plumbing, to J. Schiller & Co., 1512 Roosevelt Rd.; refrigerating, to Brunswick-Kroeschell Co., 4221 Diversey St.; and terra cotta, to Midland Terra Cotta Co., 105 North Monroe St. Archts. est. $2,500,000. Noted Dec. 16.

Minn., Duluth—CITY HALL—City, G. P. Phillips, comr., general contract 5 story and basement, 163 x 176 ft., rein.-con., brick, tile and stone, concrete pile foundation, 1st St. and 4th Ave. W., to G. H. Lounsberry & Son, 322 East Superior St. $495,986.

Minn., Minneapolis — CLUB — Womens Club of Minneapolis, J. W. Phillips, chn. building com., Leamington Hotel, general contract 4 story and basement, rein.-con., brick and stone, Oak Grove and 15th Sts., to Madsen Constr. Co., 618 Natl. Bldg. Archts. total est. approximately $250,000. Noted Mar 17.

Mo., Kansas City — APARTMENTS — Phillips Building Co., 900 Victor Bldg., will build two 7 story and basement, 124 x 145 ft., rein.-con. and brick apartments, one at 48th and Summit Sts., and other at 306 West Armour St., by day labor. $350,000 each. N. E. Peters, Orear Leslie Bldg., archt.

Mo., Kansas City — APARTMENT HOTEL—Fisher Building Co., 618 Commerce Bldg., will build 8 story and basement, 40 x 85 ft., rein.-con. and brick, Brush Creek Blvd. and McGee St., by day labor. N. E. Peters, Orear Leslie Bldg., archt.

Mo., Normandy — CLUB — Glen Echo Country Club will build 2 story and basement, brick, stone and stucco golf club house, incl. outdoor swimming pool. $400,000. Work will be done by separate contracts. P. J. Bradshaw, International Life Bldg., St. Louis, archt. Noted Jan. 27.

Tex., San Antonio—APARTMENT HOTEL, etc.—L. P. Piper, 1503 West 10th St., Austin, and L. L. Eldridge, San Antonio, will build 83 room apartment, 4 or 5 garage buildings, clubhouse, etc. Jones and Mulberry Sts., by day labor $200,000.

Colo., Denver — MAUSELEUM — Olinger Corp., 1429 Champa St., (1st unit), 3 story, 125 x 250 ft., granite and marble Crown Hill Cemetary, to F. J. Kirchoff Constr. Co., 700 Lawrence St. Archt. est. $900,000-$1,000,000. Noted May 6.

Ore., Portland — THEATRE — Portland Paramount Co., 5th and Salmon Sts., 2 story, 100 x 200 ft., rein.-con., Bway. and Salmon St., to L. H. Hoffman, U. S. Natl. Bank. Archts. est. to exceed $1,000,000.

Calif., Glendale—APARTMENT—W. J. Curren, 221A West Bway., will build 4 story and basement, 40 x 150 ft., brick, Kenwood Ave., by day labor. $150,000.

Calif., Los Angeles — MARKET — California Produce Terminal, Inc., rein.-con. market buildings, East 9th and Camulos Sts., to Dwight P. Robinson & Co., 125 East 46th St., New York City and Union Oil Bldg., Los Angeles. Archts. est. $2,000,000.

Calif., San Francisco—APARTMENT—L. Blum, 180 Jessie St., will build 4 story and basement, rein.-con., Herman St., by day labor. $160,000. Clausen & Amandes, Hearst Bldg., archts. Noted Feb. 24.

Calif., San Francisco—APARTMENT—A. F. Falvey (owner and contractor), 2099 Lake St., will build 3 story and basement apartment, vicinity of Lombard and Divisadero Sts. $150,000 or more.

Buildings—Industrial

Proposed Work

R. I., Pawtucket—MILL—Superior Cabinet Wks., Inc., 93 Newall St., plans mill, Newall St. $40,000 or more. Engineer and architect not selected.

Conn., Windsor Locks—PAPER PLANT—C. H. Dexter & Sons, soon lets contract 4 story, 80 x 100 ft., rein.-con., plain foundation. $100,000. Greenwood & Noerr, 847 Main St., Hartford, archts.

N. Y., Brooklyn — POWER PLANT — Bush Terminal, foot 43rd St., had plans prepared by Stevins & Wood, Inc., 120 Bway., New York City, rein.-con., brick and steel, plain foundation, 34th St., here. $850,000.

N. Y., Long Island City—SUGAR REFINERY and POWER PLANT — Natl. Sugar Refining Co., Front St., had plans prepared rein.-con., brick and steel plain foundation. $1,000,000.

N. J., Camden—FACTORY—Emzey Mfg. Co. having plans prepared by A. B. Gill, 328 Market St., 2 story and basement, 40 x 65 ft. rein.-con., brick and steel addition, plain foundation, 508 Liberty St.

N. J., Newark — FACTORY — Thatcher Furnace Co., J. Richardson, supt., 39 St. Francis St., making plans remodeling and altering factory, George and Komorn Sts. $40,000. Private plans.

Pa., Altoona — DAIRY — J. E. Harshberger, 406 24th St., having plans prepared by McCormick Co., 121 South Negley Ave., Pittsburgh, concrete and brick addition. $50,000.

Pa., Pittsburgh—BAKERY—Seven Baker Bros., Inc., Wabash and Lowe Sts., having plans prepared by W. E. Long Co., 155 North Clark St., Chicago, Ill., brick and steel addition, Woodville Ave. $300,000.

O., Cleveland—FACTORY—W. Watson and Associates, archts., 6414 Prospect Ave., soon lets contract 1 story, 85 x 150 ft., brick and steel, East 61st and Curtis Sts., for Wood & Spencer Co., F. W. Wood, pres., 1930 East 61st St. $60,000.

O., Cleveland — FACTORY — J. Harsch Bronze & Fdry. Co., H. B. Harsh, treas. and mgr., 11612 Madison Ave., had plans prepared by A. C. Wolf, Swetland Bldg., 2 story, 60 x 70 ft., brick and steel addition, 11612 Madison Ave. $40,000.

O., Fremont — CORE ROOM — Fremont Fdry. Co. had plans prepared by Knox & Elliot, engrs. and archts., Engineers Bldg., Cleveland, 1 story, 54 x 74 ft., brick and steel core room. $40,000.

Wis., Sheboygan—FACTORY—Sheboygan Mattress Co. having plans prepared by E. A. Juul, Security Bldg., 2 story, 50 x 120 ft., rein.-con., brick and steel, plain foundation. $45,000.

Ia., Eagle Grove—POWER PLANT—Defeated $65,000 bonds, for power plant, H. L. Cory & Co., 307 Dakota Bldg., Aberdeen, S. D., engrs. Noted Feb. 10.

Tex., Amarillo—FACTORY—Linde Air Products Co. purchased site and plans 2 story and basement, rein.-con. and steel, plain foundation. $150,000. Engineer and architect not selected.

Tex., San Antonio—LAUNDRY—Smith Bros. Development Co., c/o Plaza Hotel, having plans prepared by A. B. and R. M. Ayres, Bedell Bldg., rein.-con. laundry. $50,000 incl. equipment.

Tex., Slaton — ROUNDHOUSE — Panhandle & Santa Fe Ry. Co., M. C. Blanchard, ch. engr., Amarillo, soon takes bids 6 stall roundhouse addition; also will extend yards, here, by own forces. $300,000.

Tex., Waco—SHOPS—Missouri-Kansas-Texas R.R. Co., F. Ringer, ch. engr., St. Louis, Mo., making plans enlarging Bellmead Shops, near here. $60,000.

Calif., Long Beach—GAS PLANT—Voted $1,250,000 bonds, gas plant and system. Noted Jan. 27 under Unclassified.

Calif., Los Angeles — FACTORY and WAREHOUSE — California-Oregon Paper Mills, 2001 East 57th St., had plans prepared by Austin Co. of California, 777 East Washington St., 1 story, brick and steel, East 57th St. $60,000.

Calif., Los Angeles—LAUNDRY—Blue Bird Laundry Co., 3606 South Western Ave., having plans prepared by A. Godfrey Bailey, 410 Hillstreet Bldg., 2 story, 140 x 142 ft., rein.-con. addition. $45,000.

Calif., Pasadena—POWER PLANT—B. F. DeLanty, mgr. Light & Power Bureau, making estimates 15,000 kw. unit addition to present plant.

Calif., San Francisco—SHOPS—See "Unclassified."

Calif., Santa Clara—PACKING PLANT—Libby, McNeil & Libby, Merchants Exch. Bldg., San Francisco purchased site and plans probably rein.-con. and steel packing plant, on 6½ acre site. To exceed $150,000.

Calif., Visalia—CREAMERY PLANT—Knudsen Laboratories, 1965 Santee St., Los Angeles, having plans prepared by Train & Cressey, Western Mutual Bldg., Los Angeles, rein.-con., incl. power plant, office and warehouses. To exceed $60,000.

Calif., Wilmington — MACHINE and PAINT SHOPS—See "Unclassified."

Ont., Toronto—OIL BURNER FACTORY—Fess Oil Burners, 65 Trinity St., L. L. Jacobs, mgr., plans 3 story and basement, rein.-con., brick and steel, plain foundation, King St. E. $500,000-$100,000. Private plans.

Ont., Toronto — STORAGE BATTERY FACTORY—Hobbs Storage Battery Co., Ltd., Federal Bldg., having plans prepared by A. J. Stringer, McLean Ave., and soon takes bids 3 story, rein.-con., brick and steel, plain foundation, Spadina Ave. and Fleet St. $100,000. Noted Mar. 10.

Ont., Toronto—ELECTRIC SUB-STATION—Toronto Electric Comrs., 12 Adelaide St. E., soon lets contract electric substation, Queen St. W. $150,000. Private plans.

Bids Desired

Mass., Everett (br. Boston)—MANUFACTURING—Everett Factories Corp., C. A. Haynes, 210 Bway., taking bids 4 story, 50,000 sq.ft. floor space, brick and steel, plain foundation, Revere Beach Parkway. $65,000. Private plans. Noted Mar. 24.

Mass., Swampscott—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

N. Y., Pittsfield (mail New Berlin) — WORK SHOP—Apr. 12, by A. W. Brandt, comr. Highways, Albany, work shop, here.

Pa., Pottstown—FREIGHT HOUSE, etc.—Apr. 7, by Reading Co., C. Dillenbeck, ch. engr. Reading Terminal Bldg., Phila., 30 x 61 ft. top addition to present, and constructing 30 x 196 ft. freight house, 17 x 219 ft. platform, and 2 story and basement, 30 x 40 ft. office building, brick and steel, plain foundation, here. S. T. Wagner, Reading Terminal, Phila., archt.

Mich., Midland — CONDENSORY and POWER PLANT—Apr. 7, by Detroit Creamery Co., Cass and Grand River Aves., 1 and 2 story, rein.-con., brick and steel, plain foundation. $200,000. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

Wis., Burlington — STATION — Hanson Oil Co., taking bids 1 story, 28 x 56 ft., rein.-con. and brick service station, plain foundation. $40,000. Foeller & Schaber, Nicolett Bldg., Green Bay, archts. Noted Mar. 24.

Neb., Crete—POWER PLANT—Apr. 2, by C. E. Beals, city clk., power plant, incl. 400 hp. and 300 hp. oil engine direct connected to 375 kva. and 312 kva. generators. $76,000. H. A. Davis, Crete, engr. Noted Feb. 10.

Mo., St. Louis—LAUNDRY—Anderson Family Laundry, 4939 McPherson Ave., taking bids 2 story, brick and concrete addition, concrete foundation, 4935-65 McPherson Ave. $65,000. C. H. Wray, 1000 Rialto Bldg., archt.

B. C., Vancouver — SHOP — See "Contracts Awarded."

Contracts Awarded

Mass., Quincy (Boston P. O.)—MILK PLANT—White Bros., A. White, in charge, 86 Brooks St., 2 story, 65 x 75 ft., rein.-con. and brick, plain foundation, Brooks St., Norfolk Downs Sect., to J. J. Gallagher Constr. Co., 13 Temple St. Archts. est. $40,000. Noted Mar. 24

Mass., Swampscott—REPAIR and SERVICE GARAGE — M. McDonough, 622 Humphrey St., will build 1 story, rein.-con. and steel, plain foundation, Humphrey St. $75,000. Work will be done by separate contracts. Private plans.

Mass., Watertown—MANUFACTURING—Hay & Peabody Cement Vault Co., 282 Somerville Ave., 2 story, 88 x 170 ft., rein.-con. and brick, plain foundation, Arlington St., to E. J. Malanson, 27 Magnus Ave., Somerville. Archts. est. to exceed $40,000. Noted Mar. 10.

R. I., West Barrington—MILL—Cranston Worsted Mills, C. B. Rockwell, pres., altering and constructing 2 story addition, to Mahoney & Tucker, 72 Weybosset St., Providence. Archts. est. to exceed $40,000.

N. Y., College Point (Ind. Sta. Flushing)—POWER HOUSE—Amer. Hard Rubber Co. rein.-con., brick and steel, to Walter Kidde, 40 Cedar St., New York City. Archts. est. $200,000.

N. Y., Yonkers—MACHINE SHOP—Otis Elevator Co., 11th Ave. and 26th St., New York City, 2 story, 66 x 84 ft., steel and rein.-con. machine shop, here, to Turner Constr. Co., 244 Madison Ave., New York City. Noted Mar. 24.

N. Y., Yonkers — POWER HOUSE — Alexander Smith & Sons Carpet Co., Elm and Palisade Aves., 49 x 50 ft., steel and brick power house, 45 ft. high, to Turner Constr. Co., 244 Madison Ave., New York City.

N. J., Bayonne—OIL PLANT—Vacuum Oil Co., Constable Hook, general contract 1 story, 75 x 150 ft. oil plant addition, rein.-con., brick and steel, to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $75,000.

Pa., Phila.—SUB-STATION—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., Sub-Station 6, 1 story and basement, 50 x 103 x 112 ft., concrete, cut stone, steel and brick, plain foundation, Mt. Vernon and Lemon Sts., for Broad St. Subway, Contr. 147, to Curtis, Ginrod Co., 10 South 18th St., $185,700. Noted Mar. 24.

Md., Hagerstown — PLANT — L. T. Klauder, engr., Bankers Trust Bldg., Phila., Pa., 2 story and basement, 123 x 163 ft.

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Buildings—Industrial (Continued)

lighting plant, here, to Bester-Long Co., Hagerstown, for City. $171,500. Noted Mar. 10.

O., Cleveland—BOILER HOUSE—Canfield Oil Co., M. C. Dippel, purch. agt., 3216 East 55th St., 2 story, 41 x 50 ft., brick, steel and concrete, East 52nd St. and Western & Lake Erie R.R. tracks, to A. H. Binns Co., 7504 Carnegie Ave. Archts. est. $40,000. Noted Mar. 3.

O., Cleveland — FACTORY — A. Claus Mfg. Co., F. J. Greiner, pres., 5250 Brookpark Rd., 1 story, 60 x 80 ft., and 60 x 120 ft., brick and steel addition, 5200 Brookpark Rd., to H. G. Slatmyer & Son Constr. Co., 203 Lakeside Ave. N. W. Archts. est. $40,000.

O., Cleveland—FACTORY and OFFICE —Marquette Metal Products Co., W. S. Jack, pres., 1660 Waterloo Rd., 1 story, 100 x 200 ft., brick and steel, along New York, Chicago & St. Louis R.R. tracks, to W. Dunbar Co., 1836 Euclid Ave. Archts. est. $75,000.

Ind., Indianapolis — FACTORY — Link-Belt Co., South Belmont Ave. general contract 1 story, 80 x 181 ft., rein.-con., brick and steel factory, to Latham & Walters, State Life Bldg. Archts. est. $50,000.

Neb., Fremont—POWER PLANT—Water & Light Comn., H. L. Bunell, comr., general contract 47 x 107 ft., rein.-con. and stone addition, 60 ft. high, to H. Ohlsen & Sons, David City, $87,000; bricking-up boiler, to G. Rau, 1815 Harrison St., Kansas City, Mo., $1,600. Noted Mar. 10.

Mo., St. Louis—AUTO ACCESSORIES FACTORY—Ramsey Accessories Mfg. Co., 1007 North 15th St., 40 x 180 ft., rein.-con. and brick, 4375 Parkview Pl., to Atlas Constr. Co., International Life Bldg.

Mo., St. Louis—BOX FACTORY—Central Paper Box Co., 2106 Walnut St., 2 story and basement, 50 x 135 ft., brick and concrete, 2227-29 Walnut St., to Huger & Buecker Constr. Co., 801 Wainwright Bldg.

Mo., St. Louis—GARAGE—A.B.C. Auto Sales Co., 3519 Page Blvd., 4 story and basement, 72 x 90 ft., rein.-con. and brick, 3519 Page Blvd. and 3518-28 Easton Ave., to Harrison-Kopman Constr. Co., 594 Arcade Bldg. Archts. est. $50,000.

Tex., Dallas — FACTORY — Cullum & Boren Co., 1415-17 Elm St., 3 story and basement, 50 x 100 ft., rein.-con., plain foundation, Federal St., to W. H. King, Constr. Md. Bldg., $37,000.

Okla., Lawton—ICE PLANT—Southwestern Light & Power Co., Braniff Bldg., Oklahoma City, 1 story, 80 x 100 ft., 65 ton capacity ice plant, 3rd St. and B Ave. here, to Campbell & Price, 605½ Main St, Oklahoma City. Archts. est. $40,000, with machinery $175,000. Noted Mar. 10.

Wash., Grotto—MACHINE SHOP, LABORATORY, etc. — Northwestern Portland Cement Co., Dexter Horton Bldg., Seattle, constructing machine shop, compressor house, substation, laboratory, etc., here, to Pacific Iron Wks., 916 Clackamas St., Portland, Ore. Engrs. est. $600,000.

Calif., Los Angeles—PACKING PLANT —Baldridge Packing Co., c/o J. M. Cooper, Rives-Strong Bldg., part 1 and 2 story, brick packing plant, incl. boiler house, refrigerating plant, etc., East Vernon Ave., to J. M. Cooper, Rives-Strong Bldg., $60,000.

Calif., Los Angeles—FACTORY and WAREHOUSE—California Oregon Paper Mills, 2001 East 57th St., 1 story, 128 x 201 ft., brick and steel, 2001 East 57th St., to Austin Co. of California, 777 East Washington St., $52,800.

Calif., San Francisco — FACTORY — Pacific Coast Syrup Co., 731 Sansome St., 6 story, rein.-con., Sansome St., to P. J. Walker Co., Sharon Bldg., approximately $250,000.

B. C., Vancouver—SHOP—J. Coughlans & Sons, Columbia St. and 1st Ave., will build fabricating shop addition, False Creek, foot of Columbia St., by day labor. $150,000. Private plans.

Buildings — Educational Religious

Proposed Work

Me., Hebron — DORMITORY — Hebron Academy, c/o J. C. Stevens, archt., 477 Congress St., Portland, having plans prepared 4 story and basement, brick, plain foundation. $200,000.

Me., Howland—HIGH SCHOOL—Town, H. B. Blake & H. G. McKay, plans 2 story and basement, brick and stone high school. $150,000. Engineer and architect not selected.

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Me., Portland—SCHOOL—Sacred Heart Roman Catholic Parish, J. Gary, pastor, having preliminary plans prepared by J. J. O'Shaughnessey, 9 Park St., Boston, 2 or 3 story and basement, brick, Sherman and Mellen Sts. $150,000 or more.

Vt., West Rutland—HIGH and GRADE SCHOOL—Town, P. Leavenworth, supt. schools, plans 2 story and basement, brick and stone school. $150,000. Engineer and architect not selected.

Mass., Arlington — HIGH SCHOOL — Town, E. R. Barker, chn. school com., plans new Junior High School. $300,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — SCHOOL — St. Peters Roman Catholic Parish, 31 Buckingham St., takes bids after Apr. 1, 3 story and basement, brick and steel, plain foundation. $200,000. W. B. Colleary, 80 Boylston St., Boston, archt. Noted Oct. 14.

Mass., Gardner — LIBRARY — City, Memorial Library Trustees, City Hall, plans Levi Haywood Memorial Library. $150,000. Engineer and architect not selected.

Mass., Hopkinton — SCHOOL — Town plans 2 story and basement, brick school. $150,000. Engineer and architect not selected.

Mass., Manchester—HIGH SCHOOL—Town, R. C. Allen, chn. School Comn., plans 2 story and basement, probably brick and stone high school. $150,000 or more. Engineer and architect not selected.

Mass., Melrose (Ind. br. Boston)—HIGH SCHOOL—City, A. H. Tibbetts, mayor, plans new Junior High School. $300,000. Engineer and architect not selected.

Mass., Melrose (Ind. br. Boston)—HIGH SCHOOL — City, School Comn., plans 2 Junior High Schools, south section. $250,000. Engineer and architect not selected.

Mass., New Bedford — CHURCH — St. Mary's Parish, F. J. McKeon, pastor, 110 Summer St., plans new church. $160,000. Engineer and architect not selected.

Mass., Newton (Ind. br. Boston)—COLLEGE—St. Agnes School for Girls, 71 Walnut St., plans college, Walnut St. $150,000 or more. Engineer and architect not selected.

Mass., Southbridge—HIGH SCHOOL—Town, Bd. Educ., plans new Junior High School. $150,000 or more. $70,000 donated. Engineer and architect not selected.

Mass., Worcester — GYMNASIUM and ATHLETIC—Holy Cross College, J. N. Dinand, pres., having sketches made by Maginnis & Walsh, 100 Boylston St., Boston, brick, steel and stone gymnasium and atheletic building. $150,000 or more.

Mass., Worcester — PARISH HOUSE — First Universalist Church, 62 Pleasant St., having sketches made by Frost, Chamberlain & Edwards, 390 Main St., 3 story and basement, brick and stone, plain foundation, Clinton Court. $150,000. Noted Jan. 27.

R. I., Johnston — SCHOOL — Town, E. Preton, supt. schools, having preliminary plans prepared by W. R. Walker, 40 Weybosset St., Providence, 2 story and basement, brick and stone, plain foundation, Pocasset Sect. $150,000.

Conn., Ansonia—HIGH SCHOOL—City, M. J. Cook, mayor, plans 2 story and basement, probably brick and stone high school. $600,000. Engineer and architect not selected.

N. Y., Helmuth — NURSES HOME, STAFF ACCOMMODATIONS and FARM DORMITORY — Dept. Mental Hygiene, Capitol, Albany, takes bids in April, nurses home and staff accommodations, and in May for farm dormitory at Gowanda State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

N. Y., Newburgh—SCHOOL—Plans issuing $240,000 bonds, grade school, Chestnut St.; also addition to West St. School.

N. J., Bayonne—HIGH SCHOOL—Bd. Educ., City Hall, having revised plans prepared by G. B. Webb, 10 East 43rd St., New York City, 4 story, brick, steel and stone, plain foundation, here. $300,000. Noted Nov. 25.

N. J., Jersey City — SCHOOL — St. Nicholas Church, Ferry St., having plans prepared by F. J. Ricker, 685 Hudson Ave., West New York, altering and constructing school addition. $150,000.

N. J., Lawrenceville — SCHOOL — Bd. Educ having plans prepared by P. L. Fowler Co., 224 East Hanover St., Trenton, z story, school. $200,000.

N. J., Long Branch—CHURCH—Church of Our Lady Star of the Sea having plans prepared by R. J. Reiley, 10 East 41st St., New York City, church, here. $155,000.

N. J., Teaneck — HIGH SCHOOL — Bd. Educ. having plans prepared by Hacker & Hacker, 1012 Palisade Ave., Palisade, 2 story 250 x 250 ft., rein.-con., brick and steel, plain foundation, Queen Anne Rd $700,000.

Pa., Chestnut Hill (sta. Phila.) — COLLEGE—P. A. Monaghan, archt., 1520 Locust St., soon lets contract 3 story and basement, 43 x 112 ft., 43 x 152 ft., 43 x 320 ft., and 56 x 152 ft., rein.-con., brick, steel and stone, plain foundation, here, for St. Joseph College, Thompson St.

Pa., Juniata (br. Altoona)—SCHOOL—Juniata School Dist., J. W. Lees, chn. building com., 412 7th Ave., having plans prepared by Hersh & Shollar, Commerce Bldg., Altoona, 4 story and basement, 130 x 168 ft., brick and steel school adjoining McKinley School, 7th Ave. $400,000. Noted Jan. 20.

Pa., New Wilmington—ADMINISTRATION—Westminster College having plans prepared by A. L. Thayer, Greer Bldg., New Castle, 2 story and basement, irregular shaped, stone administration building $300,000.

O., Willoughby — GYMNASIUM and AUDITORIUM — Bd. Educ., J. E. Welt, pres., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, two new 4 room school buildings with gymnasium, and two gymnasium additions to present schools, brick, steel and concrete $200,000.

O., Youngstown—HIGH SCHOOL—Bd. Educ. soon takes bids 2 Junior High Schools one at Ford and Crandal Sts., and other at Indianola Ave. between Gibson and Homestead Aves., both brick, steel and concrete. $350,000 each. Noted Feb. 24.

Mich., Bloomfield Hills (Birmingham P. O.)—SCHOOL—Bd. Educ. having plans prepared by J. C. Stahl, 628 McKerchey Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. Lasher Rd. $150,000.

Mich., Flushing—HIGH SCHOOL—Bd. Educ. having plans prepared by Warren Holmes-Powers Co., 112 East Allegan St., Lansing, 2 story and basement, rein.-con., brick and steel, plain foundation. $160,000.

Ill., Chicago—CHEMISTRY and MEMORIAL—University of Chicago, 230 South Clark St., having plans prepared by Coolidge & Hodgdon, 134 South La Salle St., and takes bids about Apr. 23, George Herbert Jones Memorial and Chemistry Building, near 58th St. and Ellis Ave.

Tex., Amarillo—UNIVERSITY—Amarillo Methodist University c/o O. P. Clark & J. G. Nunn, doctors, plan University. $200,000. Engineer and architect selected soon.

Tex., Amarillo — UNVERSITY — O. P. Clark & J. G. Num, purchased site and plan administration and 2 dormitory buildings. $500,000. Engineer and architect not selected.

Tex., Amarillo—SCHOOL—Bd. Educ., c/o W. M. Burnham, pres., takes bids in April, for East Ward School, 23 room, brick, stone, and rein.-con., incl. cafeteria, etc. $150,000. E. F. Rittenberry, 301 Blackburn Bldg., archt.

Tex., Amarillo—SCHOOLS—School Bd. W. N. Burnham, pres., having plans prepared by E. F. Rittenberry, Blackburn Bldg, two 2 story and basement, rein.-con. and brick, one at Buchanan St, $175,000, other 1317 East 7th St., $150,000.

Wash., Seattle — CATHEDRAL — Episcopal Cathedral having sketches made by Bakewell & Brown, 251 Kearney St., San Francisco, Calif., Class "A" Cathedral $2,000,000.

Ore., Portland—SCHOOL—Hill Military Academy having plans prepared by Tourtellotte & Hummel, Failing Bldg., group modern military school buildings, Rocky Butte. $200,000.

Calif., Claremont—CHURCH—Allison & Allison, archts., Hibernian Bldg., Los Angeles, general contract rein.-con. church, to J. F. Kobler, 932 South Rimpau Blvd., Los Angeles, for Claremont Community Church. $115,989. Noted Feb. 10.

Calif., Fresno — CHURCH — Methodist Episcopal Church South, L and Fresno Sts., had preliminary plans prepared by C. Butner, Cory Bldg., 1 (equal to 3) story, steel and concrete, L and Fresno Sts. $150,000.

Calif., Glendale — SCHOOL — Glendale Bd. E duc. having plans, prepared by A. Priest, Ray Bldg., Los Angeles, constructing high school, northwest of here. $650,000. Noted Mar. 3.

Calif., San Francisco—SCHOOLS—City and San Francisco Co. appropriated $2,000,000-$3,000,000 per year for 10 year period, 15 new schools.

Que., Cap de la Madelaine — COLLEGE —Le Seminaire St. Joseph having plans prepared by Audet & Denoncourt, Three Rivers, 3 story, 100 x 125 ft. college. $500,000.

Que., Grand Mere — SCHOOL — School Comn. had plans prepared by J. Caron, Three Rivers, 3 story, 60 x 100 ft. school, here. $160,000.

Buildings—Educational, Religious (Cont.)

Que., Montreal — CHURCH — United Church of Fairmont, Fairmont Ave., W. Hanson, chn. bd., plans new church, Stuart Ave. Outremont. $200,000.

Que., Sherbrooke — CONVENT — Sisters of Congregation of Notre Dame soon take bids concrete convent addition. $200,000. L. Audet, 30 Wellington St., archt.

Ont., Peterborough—SCHOOL—Bd. Educ. having plans prepared by W. and W. R. L. Blackwell, Bank of Commerce Bldg., 3 story and basement, rein.-con., brick and steel addition, plain foundation. $175,000. Noted Mar. 10.

Ont., Windsor — SCHOOL — Separate School Bd. plans 2 or 3 story and basement, 12 room, brick, steel, stone and tile school. $160,000. Engineer and architect not selected.

Bids Desired

Me., Camden—LIBRARY—Town, c/o C. G. Loring, archt., 7 Water St., Boston, taking bids 2 story and basement, brick and stone, plain foundation, here. $150,000. Noted Nov. 4.

Mass., Falmouth—SCHOOL—Town, Supt. Schools, taking bids 2 story and basement, brick, plain foundation. $150,000. Haynes & Mason, Park Bldg., Fitchburg, archts. Noted Mar. 24.

Mass., Salem—SCHOOL—Apr. 6, by City, J. J. McCarthy, chn., 3 story and basement, 65 x 110 ft., and 70 x 110 ft., brick and steel, Highland Ave. $425,000. J. M. Gray, 175 High St., Boston, archt. Noted Jan. 6.

Mass., West Newton (Ind. br. Boston)—INFIRMARY—Fesseden School, 215 Albermarle St., taking bids 2 story and basement, brick and stone, plain foundation, Albermarle St. $150,000 or more. Shepard & Stearns, 65 Franklin St., Boston, archts. Noted Mar. 24.

Conn., Hartford—CHURCH—Apr. 5, by St. Lawrence O'Toole's Roman Catholic Church, J. A. Dooley, pastor, 157 Hillside Ave., 1 story and basement, 80 x 105 ft., brick and stone, plain foundation, Wilson St. and Hillside Ave. $150,000. O'Connell & Shaw, 134 Newbury St., Boston, Mass., archts. Noted Dec. 16.

N. Y., Syracuse—SCHOOL—Apr. 11, by Bd. Contr. & Supply, City Hall, 2 story and basement, 105 x 251 ft., rein.-con., brick and steel, plain foundation, Spaulding Ave. $300,000. A. L. Broakway, 3rd Natl. Bank Bldg., archt., N. F. Pitts, Jr., City Hall, engr.

Pa., Greensburg—SCHOOL—Apr. 5, by Bd. Educ., 2 story and basement, irregular shaped, brick on hollow tile and steel school. $150,000. C. C. Compton, Donora, archt. Noted Jan. 20.

Pa., New Castle—HIGH SCHOOL—Apr. 5, by Bd. Educ., Senior High School, 2 story and basement, irregular shaped, brick and steel addition, here. $150,000. W. G. Eckles Co., Lawrence Saving & Trust Bldg., archts. Noted Nov. 18.

Pa., Phila.—SCHOOL—Apr. 5, by Bd. Educ., J. D. Cassell, 19th and Chestnut Sts., 3 story and basement, 126 x 134 ft., rein.-con., brick and steel. plain foundation, Pratt and Mulberry Sts. $400,000. I. T. Catharine, 19th and Chestnut Sts., archt.

Pa., Phila.—NURSES HOME—Apr. 6, by W. Kruses, dir. Dept. Pub. Health, City Hall, 5 story and basement, 124 x 134 ft., rein.-con., limestone, terra cotta, steel and granite, plain foundation, 34th and Pine Sts., for Phila. General Hospital, here. P. H. Johnson, Weidener Bldg., archt.

Pa., Phila.—UNIVERSITY—Apr. 5, by Thomas, Martin & Kirkpatrick, archts., 220 South 16th St., 3 story and basement, 80 x 120 ft., rein.-con., brick and stone, plain foundation, 36th and Locust Sts., for Christian Assn. University of Penn., 34th and Spruce Sts. $300,000.

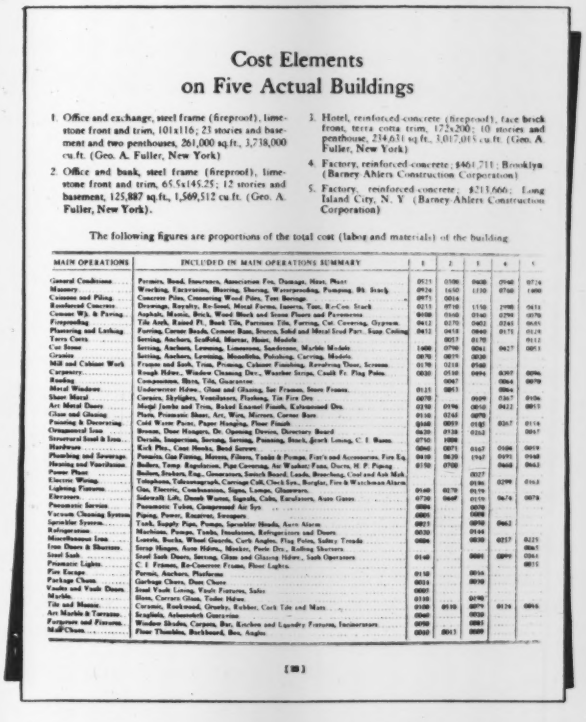
O., Ashtabula—SCHOOL—Apr. 14, by Bd. Educ. Ashtabula Twp., 2 story and basement, 124 x 144 ft., brick, steel and concrete school. $150,000. Warner & McCornack, Bulkley Bldg., Cleveland, archts. C. V. Martin, Ashtabula, associated archt.

O., Cincinnati—SCHOOL—Apr. 11, by Bd. Educ., Denton Bldg., 2 story and basement, rein.-con. and brick addition to Columbian School, plain foundation, Harvey Ave. $150,000. Fechheimer, Ihorst & McCoy. 1010 Schmidt Bldg., archts. Noted Jan. 27.

O., Miamisburg—SCHOOL—Apr. 22, by Bd. Educ., B. Keiser, pres., 2 story and basement, brick and rein.-con., plain foundation. $150,000. Pretzinger & Musselman, Reibold Bldg., Dayton, archts. Noted Feb. 24.

O., Parma (br. Cleveland) — HIGH SCHOOL—Apr. 9, by Bd. Educ., I. D. Siegfried, clk., 2 story and basement, brick, steel and concrete, incl. auditorium and

ONLY ONE *of the 48 pages.... !*



Cost Elements
on Five Actual Buildings

1. Office and exchange, steel frame (fireproof), limestone front and trim, 101x116; 23 stories and basement and two penthouses, 261,000 sq.ft., 3,718,000 cu.ft. (Geo. A. Fuller, New York)
2. Office and bank, steel frame (fireproof), limestone front and trim, 65.5x145.25; 12 stories and basement, 125,887 sq.ft., 1,569,512 cu.ft. (Geo. A. Fuller, New York).
3. Hotel, reinforced-concrete (fireproof), face brick front, terra cotta trim, 172x200; 10 stories and penthouse, 234,631 sq.ft., 3,017,015 cu.ft. (Geo. A. Fuller, New York)
4. Factory, reinforced-concrete; $461,711; Brooklyn (Barney-Ahlers Construction Corporation)
5. Factory, reinforced-concrete; $213,666; Long Island City, N. Y. (Barney-Ahlers Construction Corporation)

The following figures are proportions of the total cost (labor and materials) of the building

MAIN OPERATIONS	INCLUDED IN MAIN OPERATIONS SUMMARY	1	2	3	4	5
General Conditions	Permits, Bond, Insurance, Association Fee, Damage, Hoist, Plant	0021	0300	0400	0940	0734
Masonry	Wrecking, Excavation, Shoring, Sheeting, Waterproofing, Pumping, Pit Stock	0924	1650	1130	0760	1400
Concrete and Piling	Concrete Piles, Concreting Wood Piles, Test Borings	0971	0016			
Reinforced Concrete	Drawings, Royalty, Re-Steel, Metal Forms, Inserts, Tost, Re-Con. Stack	0213	0740	1150	2980	0431
Concrete Wk. & Paving	Asphalt, Mastic, Brick, Wood Block and Stone Floors and Pavements	0930	0360	0340	0290	0370
Fireproofing	Tile Arch, Raised Fl., Book Tile, Partitions Tile, Furring, Cut. Covering, Gypsum	0412	0270	0402	0245	0651
Plastering and Lathing	Furring, Corner Beads, Cornice Run, Stucco, Solid and Metal Lath Part. Susp. Ceiling	0412	0410	0840	0175	0129
Terra Cotta	Setting, Anchors, Scaffold, Mortar, Hoist, Models		0037	0170		0112
Cut Stone	Setting, Anchors, Lowering, Limestone, Sandstone, Marble Models	1600	0790	0041	0627	0951
Granite	Setting, Anchors, Lowering, Monoliths, Polishing, Carving, Models	0670	0875	0020		
Mill and Cabinet Work	Frames and Sash, Trim, Framing, Cabinet Finishing, Revolving Door, Screens	0170	0210	0560		
Carpentry	Rough Hdwe., Window Cleaning Dev., Wardrobe Strips, Caulk Fr. Plug Poles	0020	0140	0494	0307	0096
Roofing	Composition, Slate, Tile, Guarantee		0047		0064	0070
Metal Windows	Underwriter Hdwe., Glaze and Glazing, Bar Frames, Store Fronts	0115	0043		0064	
Sheet Metal	Cornices, Skylights, Ventilators, Flashing, Tin Fire Drs.	0070		0909	0367	0106
Art Metal Doors	Metal Jambs and Trim, Baked Enamel Finish, Kalamained Drs.	0250	0196	0850	0422	0953
Glass and Glazing	Plate, Prismatic Sheet, Art, Wire, Mirrors, Corner Bars	0150	0260	0870		
Painting & Decorating	Cold Water Paint, Paper Hanging, Floor Finish	0368	0037	0185	0267	0114
Ornamental Iron	Bronze, Door Hangers, Dr. Opening Device, Directory Board	0630	0138	0263		0067
Structural Steel & Iron	Details, Inspection, Setting, Setting, Fastening, Stock, Quick Lining, C. I. Beams	0710	1000			
Hardware	Kick Plts., Coat Hooks, Bond Screws	0060	0071	0167	0106	0019
Plumbing and Sewerage	Fixtures, Gas Fitting, Meters, Filters, Tanks & Pumps, Fire's and Accessories, Fire Eq.	0410	0820	1947	0191	0160
Heating and Ventilation	Boilers, Temp Regulation, Pipe Covering, Air Washer, Fans, Ducts, H. P. Piping	0150	0700		0468	0663
Power Plant	Boilers, Stokers, Eng., Generators, Switch Board, Leads, Branching, Coal and Ash Mah.			0327		
Electric Wiring	Telephone, Telemegraph, Conveyor Call, Clock Sys., Burglar, Fire & Watchman Alarm			0136	0299	0163
Lighting Fixtures	Gas, Electric, Combination, Signs, Lamps, Glassware.	0140	0170	0179		
Elevators	Sidewalk Lift, Dumb Waiter, Signals, Cabs, Enrollment, Auto Gates	0730	0660	0155	0676	0078
Pneumatic Service	Pneumatic Tubes, Compressed Air Sys.	0926		0070		
Vacuum Cleaning System	Piping, Power, Receiver, Sweepers	0805		0088		
Sprinkler System	Tank, Supply Pipe, Pumps, Sprinkler Heads, Auto Alarm	0823		0950	0662	
Refrigeration	Machines, Pumps, Tanks, Insulations, Refrigerators and Doors	0830		0144		
Miscellaneous Iron	Lintels, Bucks, Wheel Guards, Curb Angles, Flag Poles, Safety Treads	0806		0830	0257	0225
Iron Doors & Shutters	Scrap Hinges, Auto Hdwe., Meshes, Paris Drs., Rolling Shutters					0067
Steel Sash	Steel Sash Doors, Setting, Glass and Glazing Hdwe., Sash Operators	0140		0881	0899	0361
Prismatic Lights	C. I. Frames, Re-Concrete Frames, Floor Lights.					0811
Fire Escape	Permit, Anchors, Platforms	0150		0016		
Package Chute	Garbage Chute, Dust Chute	0850		0950		
Vaults and Vault Doors	Steel Vault Lining, Vault Fixtures, Safes	0007				
Marble	Slate, Carrara Glass, Tinker Hdwe.	0330		0190		
Tile and Mosaic	Ceramic, Rockwood, Granby, Rubber, Cork Tile and Mats	0180	0930	0071	0129	0066
Art Marble & Terrazzo	Scagliola, Ashmoleth Guarantee	0040		0020		
Furniture and Fixtures	Window Shades, Carpets, Bar, Kitchen and Laundry Fixtures, Incinerators	0950		0880		
Miscellaneous	Flue Thimbles, Buckboard, Box, Angles	0260	0013	0009		

[■]

The other 47 pages....

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Buildings—Educational, Religious (Cont.)

gymnasium, West 54th St. and Redfern Ave. $400,000. Fulton & Taylor, 8120 Euclid Ave., Cleveland, archts. Noted Feb. 17.

Mich., Grand Blanc—SCHOOL—Apr. 7, by I. E. Parsons, secy. Bd Educ., 3 story, 122 x 160 ft. rein.-con., brick and steel addition to agricultural school, plain foundation. $150,000. Warren Holmes-Powers Co., Lansing, archts.

Minn., Minneapolis—SCHOOLS—Apr. 8, by Bd. Educ., G. F. Womrath, bus. mgr., two 2 story and basement, rein.-con. and brick schools, one at 43rd Ave. S. and 38th St., $150,000; and other, 32nd Ave. W. between Russell and Queen Ave., $210,000. Bureau of Buildings, Div. Design & Inspection, 245 9th Ave. N., archts. Noted Jan. 13.

Calif., Riverside—HIGH SCHOOL—Bd. Educ. taking bids Junior High School, 2 story, rein.-con., 8th St., for Riverside City School Dist. $150,000 or more. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Jan. 27.

Contracts Awarded

Mass., Andover — HALL — Phillips Andover Academy, for science hall, to Thompson-Starrett Ct., 250 Park Ave., New York City. Archts. est. to exceed $200,000. Noted Aug. 12.

Mass., Hadley—SCHOOL—Town, School Dept., Roosevelt School, 2 story and basement, brick and stone, plain foundation, to Elwell & Chenet, 4 Bridge St., Northampton. Archts. est. $150,000.

Conn., Derby — SCHOOL — St. Joseph's Parish, A. K. Plunkett, pastor, 2 story and basement, rein.-con., brick and steel, Elm St. and Coram Ave., to Hession Bros., 31 10th St. Archts. est. $150,000. Noted Mar. 3.

Conn., Stamford — TEMPLE — Temple Bethel, 3 story and basement, 40 x 110 ft., brick, Prospect St., to Genovese & Rich, Bank St. Noted Feb. 3.

N. Y., East Aurora—CHURCH—Baker Memorial Church, 1 and 2 story, 137 x 137 ft. church, to Wright & Kremer, Niagara Falls. Noted Dec. 16.

N. Y., St. George—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 30, Leonard Ave., here, to Staten Island Constr. Co., 56 Bay St., $430,000; heating, to D. J. Rice, Inc., 601 1st Ave., New York City, $65,107. Noted Mar. 24.

N. J., Cranford—SCHOOL—Bd. Educ., 2 story, 97 x 200 ft., brick and steel, plain foundation, Orange Ave., to W. Dana Bigelow, Inc., 10 East 43rd St., New York City, $201,207. Noted Mar. 24.

N. J., Jersey City—NURSES HOME—Christ Hospital, 176 Palisade Ave., general contract 4 story, 90 x 100 ft., rein.-con., brick and steel, plain foundation, Palisade Ave., to J. Mitchell, Inc., 40 Journal Sq., $225,000. Noted Nov. 4.

O., Chagrin Falls—HIGH SCHOOL—Bd. Educ., W. W. Jackson, pres., general contract 3 story and basement, 32 x 151 ft. addition, South Kinsman Rd., to H. Kinson, 277 North Arlington St., Akron, $84,318. Noted Feb. 17.

Ind., Lafayette — SCHOOL — School Comrs., general contract rein.-con., brick and steel school, to A. E. Kemmer, 3rd and Brown Sts. Noted Mar. 4.

Mich., L'Anse—HIGH SCHOOL—F. E. and G. F. Parmelee, archts., Iron Mountain, 2 story and basement, 160 x 180 ft., rein.-con., brick, steel and stone, plain foundation, to Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis, Minn., for Bd. Educ. $196,619. Noted Mar. 17.

Mich., Plymouth—SCHOOL—A. S. Murry, secy. Bd. Educ., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Holbrook Ave., to Talbot & Meier, 250 West Lafayette Ave., Detroit. Archts. est. $150,000. Noted Feb. 24.

Mich., Royal Oak (Ind. br. Detroit)—SCHOOL—Bd. Educ., 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, incl. auditorium and gymnasium, Hudson St., to N. A. Starr Co., 408 South Main St. Archts. est. $150,000. Noted Feb. 24.

Wis., Whitewater—SCHOOL—Bd. Educ., G. J. Bonnett, clk., 2 story and basement, rein.-con., brick and steel, plain foundation, here, to L. S. Wagner & Sons Co., Monroe. Archts. est. $175,000. Noted Jan. 27.

Minn., Minneapolis—SCHOOL—Church of Ascension, 1723 Bryant Ave. N., general contract 3 story and basement, rein.-con., brick and Bedford stone, 17th and Bryant Aves. N., to R. Billingsley Co., 742 Plymouth Bldg., approximately $152,000. Noted Feb. 24.

Kan., Wichita—SCHOOL—Bd. Educ., two 2 story and basement, 61 x 110 ft., with 15 x 50 ft. wing, concrete, brick and stone grade schools, one at 10th and Grove Sts., and other at Bway. and Morris Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel, $156,050.

S. D., Aberdeen — SCHOOL — Secretary Bd. Educ., general contract 2 story and basement, 58 x 200 ft. with 72 x 72 ft. wing, rein.-con. and brick school, here, to F. E. Peterson, Aberdeen, $125,950.

Tex., Amarillo — HIGH SCHOOL — Bd. Educ., c/o W. M. Burnham, general contract 3 story and sub-basement, rein.-con., brick and stone, plain foundation, to W. G. Windsor, Amarillo, $196,350. Noted Feb. 24.

Ore., Portland—HIGH SCHOOL—School Dist., East 7th and Clackamas Sts., 2 story, 87 x 165 ft., and 75 x 140 ft., rein.-con. and brick addition to Grant High School, East 39th St., to Settergren Bros., Portland, $276,725. Noted Mar. 3.

Calif., Beverly Hills—SCHOOL—Trustees Beverly Hills School Dist., for Rodeo-Whiting School, general contract 2 story and basement, brick, to R. H. Whinery, Grosse Bldg., Los Angeles, $276,000. Former contract rescinded. Noted Mar. 24.

Federal Government Work

Proposed Work

D. C., Wash.—Mains—U. S. Engineer Office, Navy Bldg., soon take bids 21,000 ft. 48 in. mains in Nebraska and Wisconsin Aves. to Georgia Ave. and Military Rd. $700,000.

Ky., Louisville—Locks and Dams—U. S. Engineer Office plans developing Mississippi River between Ohio and Missouri Rivers $3,000,000, and Mississippi River between Missouri River and Minneapolis, Minn. $2,225,000; improving Missouri River, from junction with Mississippi River above St. Louis to Kansas City, Mo. $2,000,000, and Illinois River $66,800.

Mich., Whitefish Point—Quarters—Spec. 5277—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans quarters at Naval Radio Compass Station, here.

Mo., Lexington—Revetment—U. S. Engineer Office, 707 Postal Telegraph Bldg., soon takes bids 950 ft. revetment work on Missouri River, here. $51,300.

Tex., Fort Sam Houston (sta. San Antonio)—Barracks—War Dept., Quartermaster General, Wash., D. C., takes bids about May 15 or June 1, constructing 3 story and part basement, rein.-con., brick and pile, plain foundation, here.

Calif., Los Angeles—Dredging—U. S. Engineer Office, Central Bldg., making plans removing Dead Man's Island in entrance to main harbor, incl. widening main channel from 550 ft. to 1,000 ft., 2,000,000 cu.yd. dredging and 62 acres fill.

Bids Desired

Pa., Pittsburgh—Locks—Apr. 23, by U. S. Engineer Office, constructing Deadman Island Locks, Ohio River; adv. E. N.-R. Mar. 31.

Pa., Pittsburgh—Boats—Apr. 27, by U. S. Engineer Office, 3 steel maneuver boats; adv. E. N.-R. Mar. 31.

N. C., Fort Bragg—Water Main—Apr. 15, at office Constructing Quartermaster, 12 in. c.i. watermain; adv. E. N.-R. Mar. 31.

Ill., Chicago—Sand, etc.—Apr. 14, by U. S. Engineer Office, 537 South Dearborn St., sand, cement, crushed stone or gravel, at Chicago Harbor, here; adv. E. N.-R. Mar. 31.

N. M., Las Vegas—Post Office—Apr. 20 (extended date), by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here. Noted Mar. 3.

Idaho, Coeur D'Alene—Post Office, etc. —May 9, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing post office and court house, here.

Arizona — Road — Apr .12, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., Dept. Agriculture, Ellis Bldg., Phoenix, grading, etc., 5.85 mi. Young Sect., Forest Highway, Route 12, in Tonto Natl. Forest, Gila Co.

Calif., Fort Mason (mail San Francisco) —Post Office—Apr. 11, by Constructing Quartermaster, addition to U. S. Post Office, here.

Contracts Awarded

Mass., Bedford — Hospital — U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., general contract hospital, to Murch Bros. Constr. Co., 611 Olive St., St. Louis, Mo. $1,048,170; plumbing and heating, to Virginia Eng. Co., Newport News, $186,500 and $159,700 respectively; electrical work to Greenwood Eng. Co., 4849 Chestnut St., Phila., Pa., $56,430. Grand total $1,450,300. Noted Jan. 27.

Md., Edgewood—Dwellings—Constructing Quartermaster, constructing 10 dwellings, at Edgewood Arsenal, here, to H. A. Knott, 207 North Charles St., Baltimore, $82,650. Noted Feb. 24.

La., New Orleans—Fence and Gates—Spec. 5335—Bureau—Bureau Yards & Docks, Navy Dept., Wash., D. C., fence and gates, to Century Fence Co., Waukesha, Wis., $8,990. Noted Mar. 17.

Ill., Mt. Carmel — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing U. S. Post Office here, to A. C. Samford, 619 Sheperd Bldg., Montgomery, Ala., $74,871. Noted Mar. 24.

Calif., San Diego — Buildings — Spec. 5148—Bureau Yards & Docks, Navy Dept., Wash., D. C., general contract buildings, to Orndorff Constr. Co., 247 North Western Ave., Los Angeles, $347,500; plumbing, etc., to J. A. Brennan, Builders Exch. Bldg., Los Angeles, $48,965; heating, etc., to T. Haverty Co., 316 East 8th St., Los Angeles, $14,895; and electrical work, to Amer. Electric Constr. Co., 759 East 9th St., Los Angeles, $15,803. Grand total $427,163. Noted Mar. 24.

Unclassified

Proposed Work

Athletic Field and Field House—Brunswick, Me. — Bowdoin College, c/o R. W. Beal, archt., 185 Devonshire St., Boston, Mass., plans athletic field and field house on campus. $25,000 or more.

Swimming Pool—Brunswick, Me.—Bowdoin College, K. Sills, pres., soon takes bids swimming pool. McKim, Mead & White, 101 Park Ave., New York City, engrs. and archts. Noted Jan. 13.

Playground — Belmont, Mass. — Town plans purchasing 4¾ acres land for enlarging Grove St. Playground. To exceed $25,000. Private plans.

Athletic Field—Pittsfield, Mass.—Plans athletic field and playground for schools, on 9 acres, Elm St. To exceed $25,000. Engineer not selected.

Playground — Providence, R. I. — City Comn. on City Property, P. A. Harden, chn., plans school playground, Chalkstone and Oakland Aves. $25,000 or more.

Grade Crossing Elimination — Guilderland, N. Y.—New York Central R.R. Co., 446 Lexington Ave., New York City, F. B. Freeman, ch. engr., making preliminary plans bridge carrying tracks of West Shore R.R. over grade crossings at Dirt and McCormick Rds., here.

Greenhouse Extensions—Ithaca, N. Y. — Dept. Educ., Education Bldg., Albany, takes bids in April, extending easterly greenhouses, at Cornell University, here. S. W. Jones, Capitol, Albany, state archt. Noted Feb. 10.

Bath House and Pool—Wash., D. C.—Pub. Buildings & Pub. Parks, making plans concrete and brick bath house and bathing pool, for McKinley High School. $75,000.

Convenience Station—Wash., D. C.—District Comrs., District Bldg., soon takes bids general contract public convenience station. $40,000. A. L. Harris, Municipal archt.

Stadium — Birmingham, Ala. — D. O. Whilldin, archt., 515 North 21st St., takes bids about Apr. 20, 160 x 360 ft., brick, steel and concrete athletic stadium, 31,000 seating capacity, with playing field in center, McLendon Park, for City. $250,000. Noted Jan. 20.

Gas Pipe Line—Texas and Missouri—Texas Plains Gas Co., Panhandle, Tex., making surveys, etc. 425 mi. 20 in. natural gas pipe line from Panhandle, Tex. to Kansas City, Mo. $18,000,000. Private plans.

Land Development—Texas—Point Isabel Townsite & Development Co., c/o H. C. Tyrrel, Tulsa, Okla., and Brownsville, Tex., plans developing townsite of Point Isabel, incl. paving, water distributing system, sewers, etc. $200,000.

Oil Pipe Line and Gasoline Plant—Texas—Humphreys Corp., c/o A. E. Humphreys, Kanawka, Natl. Bank Bldg., Charleston, W. Va., purchased large tract oil land in Humble Field, and plans pipe line and casinghead gasoline plant., here. $250,000. Private plans.

Transmission Line, etc.—Texas—Texas Electric Serv. Co., c/o P. A. Rogers, vice pres., Wichita Falls, making plans, etc., 100 mi. high voltage transmission line between Wichita Falls and Breckenridge, $275,000; substation, incl. machinery at Graham, $75,000; and enlarging substations at

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Unclassified (Continued)

Archer City and Holliday, $20,000. Private plans.

Land Development — Amarillo, Tex. — Montgomery & Teague, Amarillo, taking bids developing South Fillmore sub-division, south of here, incl. water distributing system $18,000, sewers $25,000, and paving $30,000. Private plans.

Land Development — Beaumont, Tex. — Gist Realty Co., Port Arthur, purchased plot and plans Edgemore sub-division development, incl. paving $40,000, sewers $25,000, and waterworks $15,000. Private plans.

Land Development—Brownsville, Tex.—Sethman Corp., c/o Chamber of Commerce, plans developing 400 acre sub-division and citrus grove. $200,000. Private plans.

Causeway—Corpus Christi, Tex.—Flour Bluff Causeway Co. making plans concrete and timber causeway from Flour Bluff to Padre Island, near here. $500,000. Private plans.

Railroad Terminal—Dallas, Tex.—Texas & Pacific R.R., J. L. Lancaster, pres., plans 2 freight terminals and office buildings, removing tracks from Gaston Ave., to Hawkins St., extending Pacific Ave. East to Gaston Ave., developing Gaston Ave. and continuous 80 ft. thoroughfare, constructing 500 ft. subway, 36 ft. from Elm to Swiss Aves., and dedicating to city 150 x 150 x 75 ft. land for streets. $1,250,000. E. F. Mitchell, Texas and Pacific Bldg., ch. engr.

Civic Center — Houston, Tex. — Election Apr. 11, $1,400,000 bonds, civic center. Address O. F. Holcombe, mayor.

Fire and Traffic Light System—Houston, Tex.—Election Apr. 11, $150,000 bonds, extending fire alarm and traffic light system J. C. McVey, city engr.

Airport—California—City of San Francisco and San Francisco Co. plan municipal airport, incl. station buildings, equipment, shops, hangar, etc., in San Mateo Co. M. M. O'Shaughnessy, San Francisco, city engr.

Lighting System—Beverly Hills, Calif.—Making plans ornamental lighting system on portions of Country Club and Roxbury Drs., etc. $25,000 or more.

Gas System—Long Beach, Calif.—See "Buildings—Industrial."

Casinghead Gasoline Plant—Vernon, Tex.—Roxanna Petroleum Co. plans casinghead gasoline plant in Fluhmann Fields, near here. $150,000. Private plans.

Shipyard Improvements — Wilmington, Calif. — Wilmington Boat Wks., Inner Harbor, plans drydock with capacity to raise boats of 600 tons, 150 ft. paint shop, machine shop, sail lofts, blacksmith shop, 100 ton hydraulic boat lift. To exceed $90,000. Private plans.

Power Line—Quebec—Quinze Power Co. soon takes bids power line between Boischatel and Dasseret, linking up with Kirkland Lake. $50,000.

Wharves, etc.—Hamilton, Ont.—Hamilton By-Products Coke Ovens, 13-15 Main St. E., plans 1,000 ft. rein.-con. slip, with wharves, 200 ft., foot Ottawa St. $1,500,000. Private plans.

Bids Desired

Playground—Boston, Mass.—Apr. 7, by Park Dept., 33 Beacon St., reconstructing and concrete surfacing Rev. Father Buckley Playground, South Boston. $25,000. W. P. Long, chn.

Rip Rap—Plymouth, Mass.—Apr. 7, by Dept. Pub. Wks., State House, Boston, 2,000-2,500 tons stone rip rap and chips at southerly end sea wall, Warrens Cove, here, for Commonwealth of Massachusetts. W. F. Williams, comr.

Subway — New York — May 6, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing Sect. 1, Route 101, Rapid Transit R.R. under Church and Fulton Sts., Manhattan Boro, under East River, and under Cranberry, Furman, High Sts., etc., to point near intersection Jay and Nassau Sts., Brooklyn Boro.

Duct Line—Brooklyn, N. Y.—Apr. 8, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, duct line, in Coney Island Yard, Agreement "FG," here.

Fire Alarm Equipment — Long Island City, N. Y.—Apr. 11, by J. J. Dorman, fire comr., Municipal Bldg., complete equipment for receiving and transmitting fire alarms, etc., in new central office, here.

Street Signs—Phila., Pa.—Apr. 6, by G. W. Elliott, dir. Dept. Pub. Safety, City Hall, furnishing and erecting 3,475 street signs and 568 poles.

Electrical Refrigeration Plant — Richmond, Ind. — Apr. 9, by Bd. Comrs. Wayne Co., 25 cycle power electrical refrigeration plant for infirmary. H. E. Thornburgh, Richmond, aud.

Stadium and Field—Jackson, Mich.—Apr. 8, by Bd. Educ., 2 story, rein.-con., and brick, plain foundation, Winthrop St. $200,000. Wilbur, Watson & associates, 4614 Prospect Ave., Cleveland, O., archts.

Culverts—Waverly, Ia.—See "Bridges."

Truck and Sand Shed—Cody, Wyo.—See "Streets and Roads under Wyoming."

Gas Holder—Long Beach, Calif.—C. S. Henderson, city mgr., taking bids 10,000,000 cu.ft. gas holder.

Contracts Awarded

Station — Dorchester (Boston P. O.), **Mass.**—Transit Dept., Boston, for Rapid Transit Station, Savin Hill Ave. and Columbia Rd., here, to J. A. Singarella, 110 High St., Boston, $37,500. Noted Mar. 10.

Signal Tower — Flushing, N. Y. — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, reconstructing signal tower on elevated railroad structure, Flushing Route, Route 52, Sect. 1, Queens Boro, to J. B. Roberts & Co., 949 Bway., New York City, $6,770. Noted Mar. 17.

Parks—New York, N. Y.—Park Bd., F. D. Gallatin, pres., Arsenal Bldg., Central Park, constructing and improving park lands along Grand Boulevard and Concourse, to T. DiRoma, 33 Evelyn Pl., $61,080. Noted Mar. 17.

Stadium and Sports Palace — Chicago, Ill.—P. J. Harmon, 1701 West Van Buren St., masonry contract 266 x 300 ft., concrete, brick and steel, 115 ft. high, Warren Ave., Lincoln, Wood and Madison Sts., to J. W. Snyder Co., 307 North Michigan Ave.; foundations, to Dowdle Bros. Co., 307 North Michigan Ave. Archts. est. $2,666,000. Note July 8.

River Terminal—Dubuque, Ia.—Secretary Dock Bd., 100 x 221 ft. steel and concrete dock house, also pile and timber dock trestle, escalator, to A. Zvack, 13th St. and Central Ave., $204,478. Noted Feb. 17.

Swimming Pool — Normandy, Mo. — See "Buildings—Commercial."

Foundation—Dallas, Tex.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Grain Elevator—Enid, Okla.—Enid Terminal Elevator Co., c/o C. Munn, pres., 12 circular 21 ft. diam. rein.-con. bins, 100 ft. high, also 17 intercepting bins, 500,000 bu. total capacity, to Jones-Hettelsater, 708 Mutual Bldg., Kansas City, Mo. Engrs. est. $100,000. Noted Apr. 22, 1926.

Wharf—Olympia, Wash.—Olympia Port Comn., Chambers Bldg., 100 x 620 ft. pile and heavy timber wharf, incl. 800 ft. plank roadway, to C. E. Jones, Green Bldg., Seattle, $53,506. Noted Feb. 24.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on La Brea Ave. between Romaine St. and Wilshire Blvd., to H. H. Walker, 1323 Venice Blvd., $58,756.

Materials

Bids Desired

Asphalt—Boston, Mass.—Apr. 4, by Supply Dept., emulsified asphalt for cold patching as required for various streets, also 200 tons asphalt cement for Paving Serv. H. S. Frost, supt.

Road Oil and Tar—Boston, Mass.—Apr. 5, by Supply Dept. 300,000 gal. asphaltic road oil, 45% asphaltic; also tar patching material as required for ensuing year. H. S. Frost, supt.

Road Oil and Tar—Boston, Mass.—Apr. 6, by Supply Dept., 36,000 gal. nonasphaltic road oil; and hot application tar, as required for ensuing year to Park Dept. H. S. Frost, supt.

Asphalt, Cement, etc.—Springfield, Mass.—Apr. 5, by Dept. Streets, Administration Bldg., asphalt, cement, etc.

Sand—Long Island City, N. Y.—Apr. 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 3,000 cu.yd. sand.

Glass — Phila., Pa. — Apr. 8, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 17th and Filbert Sts., crystal sheet glass, Contr. 39-1927; plate glass, Contr. 40-1927; sheet glass, Contr. 41-1927. A. C. Shand, Broad St. Sta., ch. engr. railroad.

Slag Ballast, Structural Steel, etc. — Phila., Pa.—Apr. 4, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 17th and Filbert Sts., slag ballast, Contr 35-1927; frog crossings, Contr. 37-1927; and structural steel for bridges, Contr. 38-1927. A. C. Shand, Broad St. Sta., ch. engr.

Stone, Gravel, Slag, Tar, etc.—Wilmington, Del. — Apr. 12, by New Castle Co., Levy Court, crushed stone, gravel, slag, road tar, oils, asphalt and stone chips, etc., for surfacing macadam roads. $60,000-$80,000. C. E. Grubb, Wilmington, engr.

Gravel—Oxford, Miss.—Apr. 5, by Bd. Supervs. Lafayette Co., 30,500 tons gravel for use on Federal Aid Project 66-A.

Tar—Cincinnati, O.—Apr. 1, by Comrs. Hamilton Co., 300,000 gal. Grade 1 tar to Road Repair Dept. for patching macadam roads. $34,000. E. A. Gast, Court House, engr. Noted Mar. 24.

Pipe and Fibre Conduit—Cleveland, O.—Apr. 1, by City, 8,000 tons 3- to 60-in. c.i pipe; also 100,000 ft. 4 in. fibre conduit with four thousand 4 in. couplings and three 667 kva. single phase, power transformers.

Gasoline, Coal Oil and Truck Oil—Scottsburg, Ind.—Apr. 4, by Bd. Comrs. Scott Co., 2,000 gal. more or less gasoline, 1,000 gal. coal oil, and 50 gal. more or less truck oil. E. L. Hughbanks, aud.

Silica Dust—Lansing, Mich.—Apr. 11, by B. Ray, city clk., approximately 1,000 tons silica dust; adv. E. N.-R. Mar. 31.

Concrete Pipe—Spirit Lake, Ia.—Apr. 4, at office Auditor Dickinson Co., 2,500 ft. 12 in. concrete pipe. R. A. Furman, Spirit Lake, co. engr.

Posts—Minnesota—Apr. 12, by State Hy. Dept., St. Paul, C. M. Babcock, comr., St. Paul, approximately 1,000,000 ft. snow fence, and 110,850 snow fence posts f.o.b. various stations in state.

Cement—Bison, S. D.—Apr. 6, by W. M. Gigear, aud. Perkins Co., Dakota brand cement in carload lots.

Steel Sheets, etc.—St. Louis, Mo.—Apr. 4, by W. A. Hopkins, purch. agt., Missouri Pacific R.R. Co., Ry. Exch. Bldg., 400 tons 3/16 in. and heavier steel plates 200 tons blue annealed steel sheets No. 8, 10, 12, 14, 16 and 18; 10 tons black steel sheets No. 18 and lighter; 20 tons galvanized steel sheets No. 20 and lighter; 75 tons locomotive jacket, stretcher leveled, resquared and oiled No. 22; 30 tons steel galvanized copper bearing sheets, ordered during April, May and June, 1927. E. A. Hadley, ch. engr. railroad.

Crushed Rock—Houston, Tex.—Apr. 11, by Harris Co., 4,000 tons crushed rock. $6,000. Howe & Wise, 816 1st Natl. Bank Bldg., engrs.

Shell—Houston, Tex.—Apr. 18, by Harris Co., 30,000 tons shell, $45,000. Howe & Wise, 816 1st Natl. Bank Bldg., engrs.

Pipe—Montreal, Que.—Apr. 11, by City, 3,600 lin.ft. 4 in., 7,800 ft. 6 in., 63,600 ft. 8 in., 4,800 ft. 10 in. and 6,000 ft. 12 in. c.i. pipe

Bids Received

Asphaltic Cement, etc.—St. George, N. Y.—J. J. Lynch, pres. Richmond Boro, Boro Hall, Mar. 23, from Standard Oil Co. of New York, 362 7th Ave., New York City, 275 tons asphaltic cement, $6,454; from Barrett Co., 61 Bway., New York City, 110,000 gal. bituminous road materials, $11,000; from J. E. Donovan, 2207 Richmond Terrace, Port Richmond, 368,000 gal. macadam binder $55,200, broken stone and screenings (a) $5,520 (b) $5,120 (c) $370 (d) $960, and 1,250 cu.yd. pea gravel for Dist. 1 $3,125; from Colgan Contg. Co., 90 Williams St., New York City, 1,080 cu.yd. trap rock $2,052, 1,825 cu.yd. pea gravel Dist. 2 $4,636, and 1,775 cu.yd. pea gravel Dist. 3 $4,509; from Vanbro Constr. Co., 20 Elizabeth St., Port Richmond, 2,200 cu.yd. broken stone and screenings (a) $7,150, 2,150 cu.yd. broken stone and screenings (a) $9,632 (b) $9,198 (c) $1,344 (d) $1,314; from Liberty Mason Supply Co., Baltic St., St. George, 2,200 cu.yd. broken stone and screenings (b) $6,594 (c) $1,020; from J. Johnson Sons, 455 Bway., West New Brighton, 1,000 cu.yd. broken stone $4,500, and 1,450 cu.yd. trap rock $7,360. Noted Mar. 17.

Contracts Awarded

Asphalt, Road Oil and Tar — Boston, Mass.—Commonwealth of Massachusetts, Comn. Administration & Finance, asphalt road oil and tars, Sect. A, to M. Moulton, 6 Beacon St., $50,050; Sect. B, to Standard Oil Co., Park Sq. Bldg., $124,416. Noted Mar. 17.

Frame and Covers, etc.—Boston, Mass.—Supply Dept., manhole and catch basin frames and covers, grates, tide gates, iron inlets, regular castings, iron casting, etc., as required until Dec. 31, to Foran Fdry. & Mfg. Co., Flemington, N. J., $0.0445 per lb.

Transformers, etc.—Columbus, O.—H. C. Cain, secy. Bd. Purchase, City Hall, 22 transformers for municipal electric light plant, to Electric Serv. Co., $5,801; 33,885 ft. cable, to Safety Cable Co., 114 Liberty St., New York City, $4,191; and 84 ornamental light standards, to Erner-Hopkins Co., 146 North 3rd St., Columbus, $6,145. Grand total $16,137.

See proposal advertising on page 124

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Street Improvement—Akron, Ohio

Bids were opened by Department of Public Service, Division of Highways (lowest three), Feb. 28, for improving Chittenden Street from 5th to 7th Avenues, from (A) McCourt Construction Co., 369 South Main St.; (B) Hollinger & Davidson; (C) Columbus Asphalt Pavement Co. The unit bids are as follows:

	A	B	C
6,000 cu.yd. grading	$0.55	$0.60	$0.55
1 cu.yd. trench excavation	1.00	1.00	2.00
490 lin.ft. under drainage 4 in. pipe	.10	.60	.20
408 lin.ft. drains inlet connections 12 in. pipe	1.60	2.00	1.20
1 sewer laterals	28.00	20.00	30.00
6 manholes readj. to grade	4.00	3.00	2.00
1 new manhole frame and cover	20.00	20.00	16.00
5 lin.ft. manholes rebuilt	5.00	3.00	3.00
17 inlets plan 3	35.00	5.00	40.00
1 cu.yd. concrete CL II	12.00	10.00	8.00
110 lin.ft. standstone curb 6x18 in. hand dr	1.70	1.75	1.70
380 lin.ft. sandstone cir. curb 6x18 in.	2.50	2.50	2.50
380 lin.ft. medina cir. curb 6x18 in.	3.00	2.75	3.00
380 lin.ft. granite cir. curb 6x18 in. class A	3.50	2.75	3.25
380 lin.ft. granite cir. curb 6x18 in. class B	3.75	2.50	3.00
10 lin.ft. sandstone curb redressed	.50	.60	.80
10 lin.ft. curb reset	1.20	.50	.80
20,300 sq.ft. cement walk two course	.22	.19	.24
1,050 sq.ft. cement driveway	.28	.24	.29
50 sq.ft. cement walk relaid	.12	.10	.07
4 street signs arc No. 5960	20.00	20.00	20.00
100 lin.ft. ½ bituminous expan: strip	.10	.15	.10
1,040 cu.yd. cinders	1.20	1.10	1.30
140 lin.ft. 4 in. w. i. drain	.50	.50	.50
3,855 lin.ft. concrete gutters plan A	.50	.90	.65
12 water valve boxes readjusted	1.00	3.00	.60
If cinder base for cement walk is omitted deduct per sq.ft.	.02	.02	.02
Totals cinder roadway	$14,342	$15,040	$15,284

Paving—Houston, Tex.

Bids were opened by City, Feb. 12, for paving Commerce Avenue from west line of Buffalo Street to east line of Hamilton Street, from (A) A. M. Arnold & Co., Summer and Elder Streets; (B) San Jacinto Construction Co., First National Bank Bldg. The unit bids are as follows:

	A	B
5,800 cu.yd. excavation	$0.60	$0.60
110 sq.yd. removal old surface	.15	.10
120 cu.yd. removal old concrete	3.00	2.00
20 ton mi. haul over 200 ft.	1.00	2.50
5 supplying and setting inlets style "B"	50.00	40.00
11,900 sq.yd. 6 in. concrete base (fr. brick)		1.40
11,200 sq.yd. 6 in. concrete base (others)	1.45	1.40
20 cu.yd. extra concrete in base	10.00	10.00
15 cu.yd. extra concrete other than base	15.00	15.00
1,000 man hrs. extra work per man hour	.40	.50
350 team hrs. extra work per team hour	.90	.90
4,100 lin.ft. standard conc. curb (brick)		.50
4,100 lin.ft. standard combined curb and gutter (others	1.00	1.00
300 sq.ft. standard conc. driveways	.35	.30
300 sq.ft. standard conc. sidewalks	.25	.25
500 lin.ft. standard conc. header	.60	.50
10 lin.ft. laying 12 in. sewer pipe 0-6 ft. deep	3.00	2.50
75 lin.ft. laying 15 in. sewer pipe 0-6 ft. deep	3.00	3.00
10 lin.ft. laying 12 in. sewer pipe 6-10 ft. deep	3.50	3.00
75 lin.ft. laying 15 in. sewer pipe 6-10 ft. deep	3.50	3.50
2 supplying and setting type "BB" inlets	79.00	75.00
27,450 lb. reinforcing steel in place (½ in.)	.06	.04
150,000 lb. reinforcing steel in place (⅜ in.)	.06	.06
5 ton bituminous binder course	20.00	17.00
5 ton bituminous surface course	20.00	17.00
11,900 sq.yd. 3 in. brick—sand cushion		2.53
11,200 sq.yd. 2 in. rock asphalt	1.53	1.70
11,900 sq.yd. 5 year guarantee for brick		.03
11,200 sq.yd. 5 year guarantee for others	.05	.05
Totals 6 in. conc. base with 2 in. rock asphalt	$55,340	$55,977
Totals 6 in. conc. base with 3 in. brick		65,601

Sewerage System—Hunter, N. Y.

Bids were opened by Board of Water Supply, Municipal Bldg., New York City, Mar. 1, for construction of Tannersville Sewerage System, from (A) Paulsen Construction Corp., 21 East 40th St., New York City (awarded contract); (B) D. Schoentag, Inc., Saugerties; (C) Kuchar Bros., Montvale, N. J.; (D) Frank E. Hartman & Co., Natl. Bank Bldg., Charlottesville, Va.; (E) Beaver Engineering & Contracting Co., 51 Chambers St., New York City; (F) Bird & Street Bros. Construction Co., 424 Wieting Bldg., Syracuse; (G) The Jordan Construction Co., Inc., 24 James St., Albany; (H) A. Gregorio & Co., Inc., 1121 Neill Ave., New York City. The unit bids are as follows:

	A	B	C	D	E	F	G	H
1,000 cu.yd. removal of top soil at disposal works	$1.00	$2.00	$1.80	$1.50	$0.75	$1.25	$2.50	$3.70
16,000 cu.yd. earth excavation at disposal works	1.00	1.00	1.80	.95	.50	1.50	1.50	3.70
12,000 cu.yd. refilling and embanking at disposal works	1.00	1.50	.85	.85	.20	1.80	.75	2.70
800 cu.yd. surface dressing and grassing at disposal works	3.00	2.50	2.00	4.00	.50	1.00	2.00	3.70
31,000 cu.yd. earth excavation and refilling of pipe trenches less than 6 ft. in depth	2.49	2.25	2.00	1.80	1.00	2.50	2.50	3.20
15,000 cu.yd. earth excavation and refilling of pipe trenches from 6 ft. to 10 ft. in depth	2.49	3.00	2.10	1.95	2.00	2.75	2.50	3.20
4,300 cu.yd. earth excavation and refilling of pipe trenches more than 10 ft. in depth	2.49	4.00	2.20	3.40	3.00	3.00	2.50	3.20
700 cu.yd. rock excavation	10.00	8.00	10.00	10.00	12.00	10.00	7.00	14.60
Railroad crossings (lump sum)	1,000.00	500.00	400.00	1,000.00	84,000.00	2,500.00	5,000.00	10,000.00
32,000 lin.ft. 4-in., 5-in. and 6-in. vit. pipes	.50	.35	.50	.48	.35	.55	.60	.46
42,900 lin.ft. 8-in. vit. pipes	1.25	.50	.77	.72	.45	.65	.80	.63
4,400 lin.ft. 10-in. vit. pipes	1.50	.70	1.05	.82	.60	.85	1.00	.83
600 lin.ft. 12-in. to 18-in. vit. pipes	3.00	2.00	3.00	2.60	3.00	2.00	2.00	1.83
175 lin.ft. 24-in. vit. pipes	5.00	3.25	5.00	3.80	5.00	3.50	4.00	2.83
155 ton cast-iron pipes, straight "Universal" or equal and hub-and-spigot	80.00	110.00	100.00	120.00	100.00	85.00	90.00	100.00
6 ton cast-iron "Universal" or equal and hub-and-spigot specials and cast-iron flanged pipes and specials	250.00	200.00	220.00	210.00	200.00	150.00	200.00	200.00
26 ton cast-iron vents, manhole heads and covers	200.00	150.00	220.00	140.00	500.00	135.00	150.00	200.00
24,000 lb. steel for reinforcing concrete	.05	.08	.06	.07	.07	.06	.07	.10
13,200 lb. miscellaneous cast iron, wrought iron and steel	.10	.20	.25	.16	.12	.10	.20	.25
24 8-in. shear-gates	50.00	40.00	35.00	36.00	40.00	45.00	40.00	41.50
20 2½-in. and smaller bronze gate-valves	10.00	10.00	15.00	7.00	15.00	10.00	12.00	15.80
12 8-in. gate-valves	75.00	60.00	55.00	48.00	80.00	60.00	50.00	72.50
4 8-in. sluice-gates	50.00	70.00	60.00	65.00	120.00	60.00	50.00	94.50
3,200 bbl. portland cement	3.00	3.00	3.50	2.90	3.00	3.20	3.50	3.85
900 cu.yd. concrete masonry	10.00	12.00	18.00	22.00	12.00	18.00	25.00	24.00
200 manholes	75.00	80.00	60.00	72.00	100.00	50.00	100.00	61.00
400 cu.yd. reinforced concrete	20.00	18.00	24.00	30.00	20.00	25.00	30.00	36.00
50 cu.yd. dry-rubble masonry and paving	6.00	10.00	10.00	12.00	20.00	15.00	8.00	7.30
100 cu.yd. rip-rap	6.00	8.00	10.00	12.00	15.00	8.00	3.00	7.30
500 cu.yd. gravel for filter underdrains	3.50	4.50	5.00	6.00	4.00	4.00	5.00	11.00
1,000 cu.yd. gravel and crushed stone for miscellaneous purposes	3.00	4.50	4.00	5.00	3.00	3.00	5.00	12.80
12,500 cu.yd. sand for filters	2.50	4.50	4.00	6.50	2.50	4.50	6.00	9.75
Filter dosing apparatus (lump sum)	6,750.00	6,000.00	6,700.00	2,900.00	20,000.00	6,000.00	8,000.00	7,320.00
Chlorinating apparatus (lump sum)	2,900.00	2,000.00	2,400.00	2,200.00	20,000.00	2,000.00	4,000.00	3,660.00
Water-supply pump and pressure tanks (lump sum)	1,250.00	2,000.00	1,600.00	1,000.00	20,000.00	2,000.00	4,000.00	3,000.00
Superstructures (lump sum)	12,500.00	8,000.00	19,000.00	15,000.00	15,000.00	20,000.00	25,000.00	28,000.00
5,000 sq.yd. resurfacing of road	1.00	1.50	1.50	2.90	.50	2.00	1.25	6.00
3,000 sq.yd. sidewalks and cross-walks	1.50	2.25	.75	1.90	.50	2.50	1.25	4.25
20 M. ft. timber and lumber	80.00	100.00	150.00	120.00	1.00	80.00	100.00	200.00
Totals	$379,767	$384,569	$387,858	$409,213	$415,504	$420,763	$459,840	$647,112

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UNIT PRICES *continued on page 210a*